

NOAA Technical Report EDS 23



**U.S. National Processing
Center for GATE:
B-Scale Ship
Precipitation Data**

Washington, D.C.
April 1977



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Data Service

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U.S. National Processing Center for GATE: B-Scale Ship Precipitation Data

Center for Experiment Design and
Data Analysis

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U.S. DEPARTMENT OF COMMERCE

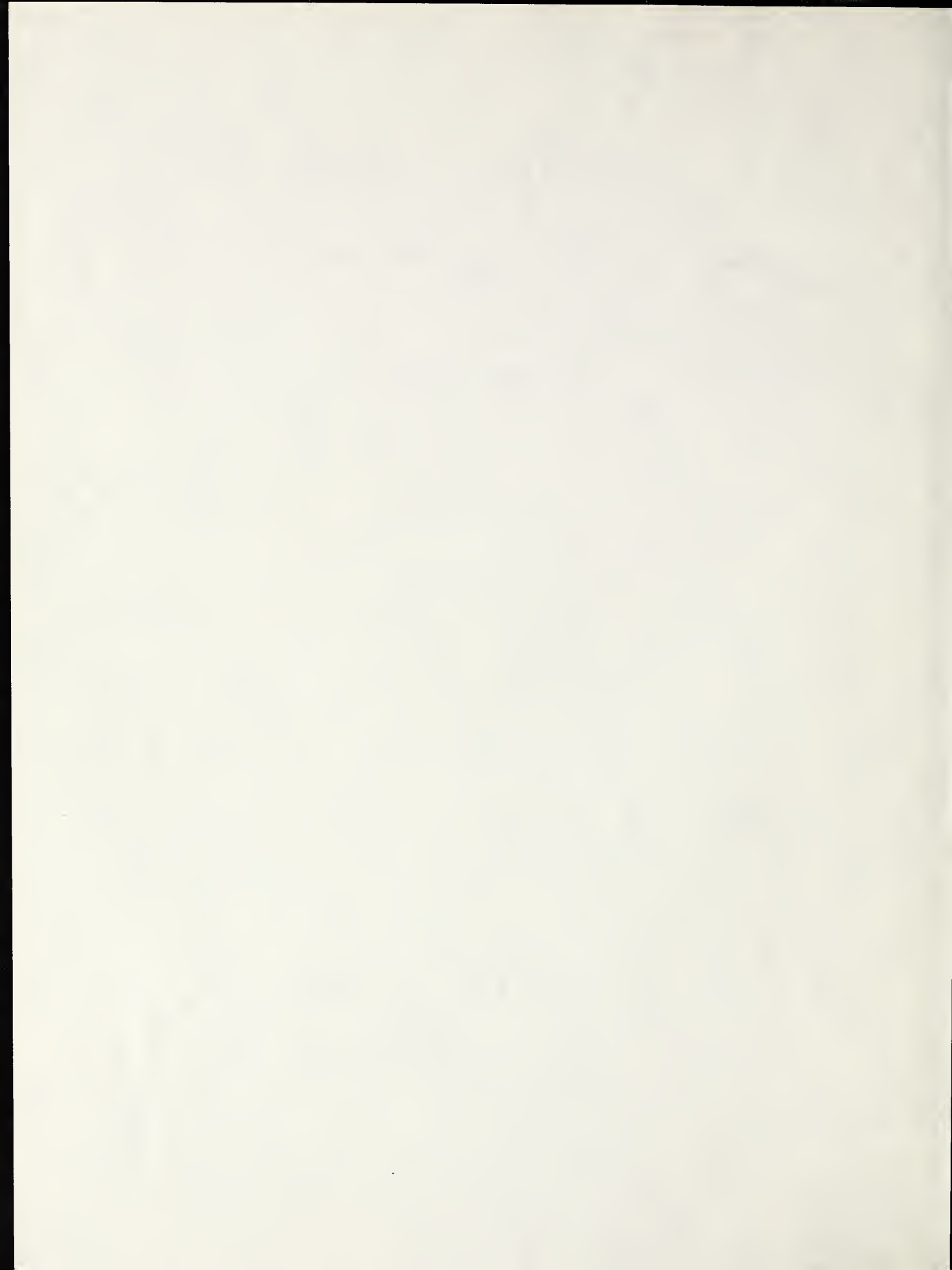
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U.S. NATIONAL PROCESSING CENTER FOR GATE:
B-SCALE SHIP PRECIPITATION DATA

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ABSTRACT. Precipitation data obtained in 1974 aboard the U.S. B-scale ships during the GARP Atlantic Tropical Experiment (GATE) are presented. Tabulations include precipitation as measured by siphon rain gages mounted on the masts, and recorded in standard World Meteorological Organization (WMO) marine logs; automatically recorded data obtained with gages mounted on the masts and bow booms; and supplementary rainfall measurements made with plastic gages.

1. INTRODUCTION

This report presents tabulations of precipitation data obtained on the U.S. B-scale ships during the GARP¹ Atlantic Tropical Experiment (GATE), conducted in the summer of 1974 in the eastern Atlantic. The field operations consisted of three observation Phases and three brief Intercomparison periods. In addition to synoptic-scale (A scale) observations, measurements were made within A/B- and B-scale arrays for the study of smaller scale weather systems. The ship configurations for the three Phases are shown in figures 1, 2, and 3.

Precipitation data were obtained aboard the U.S. B-scale ships with several different sensors. Rainfall that passed through siphon rain gages mounted on the ships' masts were recorded on standard World Meteorological Organization (WMO) marine logs; these data are presented in section 2. Section 3 contains precipitation data obtained with automatic siphon gages mounted on both the masts and on booms extending from the ships' bows. Supplementary rainfall measurements with plastic rain gages are tabulated in the appendix. All three data sets have been processed, edited, and validated at the Center for Experiment Design and Data Analysis, National Oceanic and Atmospheric Administration, which serves as the U.S. National Processing Center for GATE.

¹ Global Atmospheric Research Program.

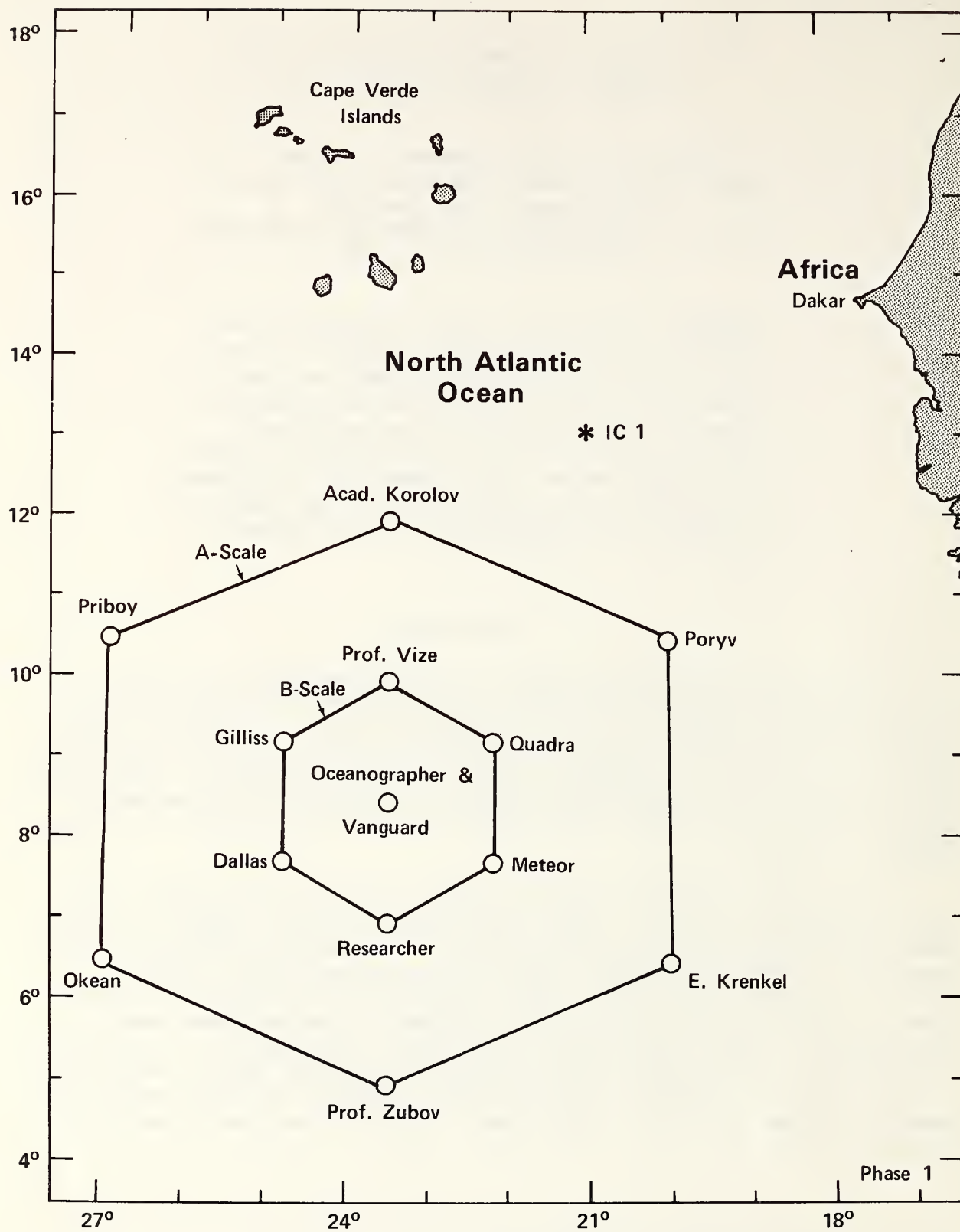


Figure 1.--Phase I ship array.

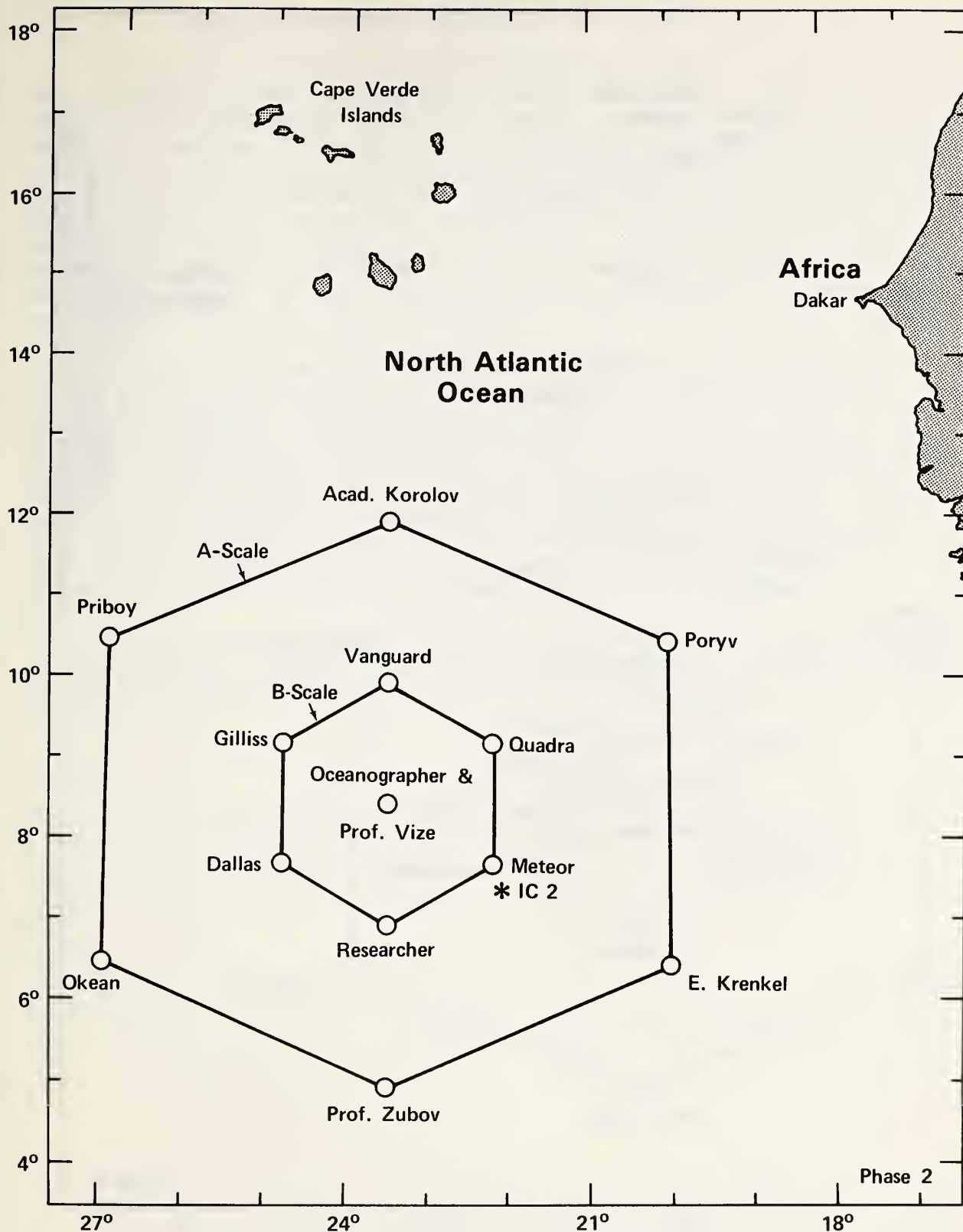


Figure 2.--Phase II ship array.

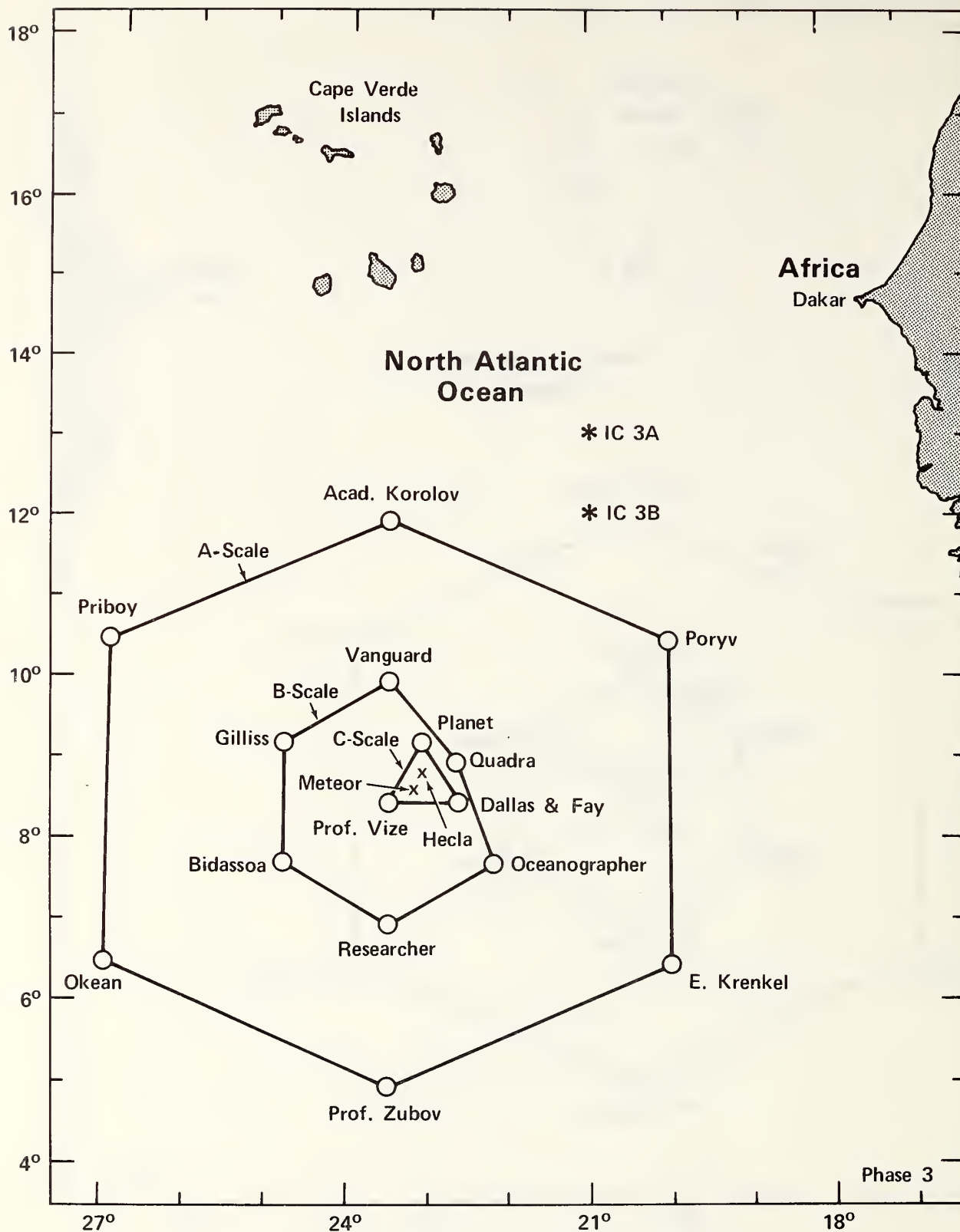


Figure 3.--Phase III ship array.

2. PRECIPITATION DATA RECORDED IN WMO STANDARD MARINE LOGS

During GATE, a siphon gage designed by the Sea-Air Interaction Laboratory of NOAA's Atlantic Oceanographic and Meteorological Laboratories in Miami, Florida, was used for shipboard precipitation measurements. These gages were mounted on the masts and on booms extending from the bows of four of the U.S. ships, the Researcher (NOAA), the Gilliss (University of Miami), the Dallas (U.S. Coast Guard), and the Oceanographer (NOAA). Rainfall that passed through the gage mounted on the mast was collected at the base of the mast and recorded in standard WMO marine logs. Data obtained from this gage as well as from the one mounted on the boom were also recorded automatically on digital tape by the data acquisition system aboard the four ships (see sec. 3).

Tables 1 to 4 summarize rainfall data derived from the manual recordings in the WMO standard marine logs of the siphon-gage measurements aboard the Researcher, Gilliss, Dallas, and Oceanographer. Data for the NASA ship Vanguard are given in table 5, and are based on measurements by a standard 8-in. rain gage located amidships on the deck. This gage was to some degree shielded by the shipboard radar antennas, while the more elevated mounting of the siphon gages on the other ships provided better exposure. In all five tables, totals are shown for each 6-hr interval for which rainfall was recorded in the logs, with "T" indicating a trace, or less than 0.1 mm. Start and stop times of observed precipitation are also given.

Rainfall amounts include corrections for obvious errors in the entries on the WMO forms. Such corrections were made only after careful evaluation of all precipitation data available to the U.S. National Processing Center.

Table 1.-- Researcher precipitation data from standard WMO marine logs

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
June 27	178	0000-0600	T	0142	0303	
June 27	178	1200-1800	T	Unknown	Unknown	
June 27/28	178/179	1800-0000	T	2100	-	
June 28	179	0000-0600	13	-	0146	
"	"	"		0230	0410	
"	"	"		0430	-	
June 28	179	0600-1200	Unknown	-	0740	Gage not read.
"	"	"		0810	Unknown	
"	"	"		1105	-	
June 28	179	1200-1800	59	-	1650	Collection tube overflowed; 6-hr total is from flying bridge plastic gage.
June 28/29	179/180	1800-0000	T	1830	2250	
June 29	180	0000-0600	T	0305	0308	
June 29	180	1200-1800	5	1310	1325	
"	"	"		1427	1509	
"	"	"		1600	1730	
June 29/30	180/181	1800-0000	90	1745	-	
June 30	181	0000-0600	2	-	-	Rain throughout 6-hr period.
June 30	181	0600-1200	T	0903	0958	
June 30	181	1200-1800	6	1250	1423	
June 30/July 1	181/182	1800-0000	3	1950	Unknown	
"	"	"		2345	-	

Table 1.--Researcher precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 1	182	0000-0600	T	-	0009	
"	"	"		0050	0129	
July 1	182	0600-1200	T	0810	0830	
"	"	"		0955	1010	
July 1	182	1200-1800	16	1206	1310	
"	"	"		1334	1421	
"	"	"		1451	Unknown	
July 1/2	182/183	1800-0000	0.5	2205	2210	
July 2	183	0000-0600	17	0132	-	
July 2	183	0600-1200	0.3	-	1030	
July 2	183	1200-1800	1	1216	1222	
"	"	"		1242	1304	
"	"	"		1309	1340	
"	"	"		1355	1414	
"	"	"		1419	1600	
"	"	"		1710	-	
July 2/3	183/184	1800-0000	13	-	-	Rain throughout 6-hr period.
July 3	184	0000-0600	7	-	-	
July 3	184	0600-1200	8	-	0730	
July 4	185	0600-1200	T	1128	1147	
"	"	"		1157	-	
July 4	185	1200-1800	6	-	1204	
"	"	"		1353	1430	
"	"	"		1443	1500	
July 5	186	1200-1800	10	1705	1725	
July 6	187	0600-1200	0.5	0940	Unknown	

Table 1.--Researcher precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 6	187	0600-1200		1040	1105	
July 6/7	187/188	1800-0000	T	1930	1940	
July 7	188	0000-0600	1	0235	0239	
"	"	"		0400	0430	
"	"	"		0500	0550	
"	"	"		0640	0655	
July 7	188	0600-1200	6	0901	0905	
"	"	"		1000	1115	
July 7	188	1200-1800	2	1210	1230	
"	"	"		1232	1255	
"	"	"		1237	1310	
"	"	"		1358	1410	
"	"	"		1421	1444	
July 7/8	188/189	1800-0000	1	1800	2110	
July 8	189	0600-1200	6	1052	1108	
"	"	"		1121	-	
July 8	189	1200-2000	99	1212	1206	Gage not read at 1800; collection tube overflowed; total is from weather shelter.
"	"	"		1325	Unknown	
"	"	"		1745	1335	
July 8/9	189/190	2000-0000	17	-	-	
"	"	"		2345	2330	
July 9	190	0000-0600	T	-	-	
"	"	"		0220	0110	
"	"	"		0240	0230	
"	"	"			0515	

Table 1.-- Researcher precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 11/12	192/193	1800-0000	T	2012	2050	
July 12	193	1200-1800	T	1514	1529	
July 13	194	0000-0600	0.3	0345	0400	
July 13/14	194/195	1800-0000	T	1840	1910	
"	"	" "		2050	2105	
"	"	" "		2350	-	
July 14	195	0000-0600	0.4	-	0102	
"	"	" "		0128	0147	
"	"	" "		0157	0230	
July 14	195	0600-1200	9	0700	0925	
July 14	195	1200-1800	0.3	1334	1450	
July 14/15	195/196	1800-0000	0.3	1845	2040	
July 15	196	0600-1200	T	1138	1142	
July 15	196	1200-1800	1	1317	1342	
"	"	" "		1457	1510	
"	"	" "		1528	1541	
July 15/16	196/197	1800-0000	T	1820	1830	
July 18	199	1200-1800	5	Unknown	Unknown	
July 27	208	0000-0800	5	0525	0730	Total is for 8-hr period.
July 27/28	208/209	1800-0000	1	1817	1845	
July 28	209	0000-0600	34	0025	0420	
July 28	209	0600-1200	11	-	1010	
"	"	" "		1035	1200	
July 28	209	1200-1800	3	1500	1535	
"	"	" "		1625	1830	

Table 1.-- Researcher precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-her period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 28/29 "	209/210 "	1800-0000 "	4	2127 2220	2207 2345	
July 29	210	0000-0600	6	0505	-	
July 29	210	0600-1200	4	-	0710	
"	"	"		0941	1120	
"	"	"		1140	1200	
July 31	212	0000-0600	T	0005	0115	
Aug 2	214	1200-1800	T	1600	1615	
Aug 2/3	214/215	1800-0000	10	1800	1830	
"	"	"		2010	2302	
"	"	"		2340	2355	
Aug 3	215	0000-0600	3	0143	0155	
"	"	"		0340	0345	
"	"	"		0405	-	
Aug 3	215	0600-1200	8	-	0710	
"	"	"		1126	-	
Aug 3	215	1200-1800	1	-	1640	
Aug 3/4	215/216	1800-0000	3	1908	1930	
"	"	"		1945	2100	
"	"	"		2249	2310	
Aug 4	216	1200-1800	1	1515	1610	
"	"	"		1635	1700	
Aug 4/5	216/217	1800-0000	T	2201	2222	
"	"	"		2316	2324	
Aug 5	217	0000-0600	1	0050	0110	
"	"	"		0330	0500	
Aug 5	217	0600-1200	1	1032	1134	

Table 1.-- Researcher precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Aug 5	217	0600-1200		1136	1145	
Aug 5/6	217/218	1800-0000	T	1936	1945	
"	"	" "		1953	2016	
"	"	" "		2115	2126	
"	"	" "		2333	0000	
Aug 6/7	218/219	1800-0000	T	2302	2305	
Aug 7	219	0600-1200	3	0800	0820	
"	"	" "		0904	1003	
Aug 7/8	219/220	1800-0000	0.2	2059	2118	
Aug 8	220	0000-0600	1	0230	0250	
Aug 8	220	0600-1200	0.2	0655	0705	
Aug 9	221	1200-1800	7	1605	-	
Aug 9/10	221/222	1800-0000	Unknown	-	1930	
Aug 10	222	0600-1200	9	0825	1056	
Aug 10/11	222/223	1800-0000	T	1900	1905	
Aug 11/12	223/224	1800-0000	T	2221	2323	
Aug 12	224	0000-0600	19	0025	0055	
"	"	" "		0255	-	
Aug 12	224	0600-1200	1	-	0634	
"	"	" "		0655	0800	
"	"	" "		0834	0844	
"	"	" "		1039	1101	
Aug 12	224	1200-1800	0.2	1603	1705	
Aug 13	225	0000-0600	2	0347	0410	
Aug 16/17	228/229	1800-0000	T	2332	0000	
Aug 17	229	1200-1800	T	1340	1400	

Table 1.--Researcher precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Aug 17	229	1200-1800		1452	1520	
"	"	" "		1603	1615	
"	"	" "		1755	-	
Aug 17/18	229/230	1800-0000	0.2	-	1910	
Aug 18	230	0000-0600	T	0300	0315	
Aug 18	230	0600-1200	18	0740	1100	
"	"	" "		1120	1122	
"	"	" "		1130	-	
Aug 18	230	1200-1800	T	-	1210	
"	"	" "		1455	1515	
Aug 18/19	230/231	1800-0000	T	2038	2045	
"	"	" "		2120	2130	
Aug 19	231	0000-0600	Unknown	0320	-	
Aug 19	231	0600-1200	26	-	0745	Total is for 12-hr period, 0000-1200.
Aug 19	231	1200-1800	4	1725	1755	
Aug 29	241	0600-1200	T	Unknown	Unknown	
Aug 29	241	1200-1800	0.3	Unknown	Unknown	
Aug 29/30	241/242	1800-0000	12	Unknown	Unknown	
Aug 30	242	0000-0600	1	Unknown	Unknown	
Aug 30	242	0600-1200	8	Unknown	1000	
Aug 31/Sept 1	243/244	1800-0000	0.2	1855	1930	
Sept 1	244	0000-0600	0.6	0435	0547	
Sept 2	245	0000-0600	2	0451	0528	
Sept 2	245	0600-1200	0.5	0626	0656	
Sept 2	245	1200-1800	21	1510	1620	
"	"	" "		1638	-	

Table 1.--Researcher precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 2/3	245/246	1800-0000	3	-	1833	
"	"	"		1913	2000	
"	"	"		2038	2125	
Sept 3	246	1200-1800	1	1520	1630	
Sept 3/4	246/247	1800-0000	5	2145	2218	
"	"	"		2250	-	
Sept 4	247	0000-0600	6	-	0240	
"	"	"		0357	-	
Sept 4	247	0600-1200	4	-	0745	
"	"	"		1055	1110	
Sept 4	247	1200-1800	5	1258	-	
Sept 4/5	247/248	1800-0000	30	-	2330	
Sept 5	248	0600-1200	0.5	0830	0850	
"	"	"		Unknown	Unknown	Slight drizzle recorded at 1000.
Sept 5/6	248/249	1800-0000	24	1839	1840	
"	"	"		1908	2230	
Sept 6	249	0000-0600	1	0528	-	
Sept 6	249	0600-1200	0.5	-	0720	
Sept 6	249	1200-1800	0.5	1304	1310	
"	"	"		1608	-	
Sept 6/7	249/250	1800-0000	T	-	1910	
Sept 10	253	0600-1200	0.2	0607	0658	
"	"	"		0707	0742	
"	"	"		0825	0855	
Sept 10	253	1200-1800	1	1350	1415	
Sept 11	254	0000-0600	0.6	0015	0025	
Sept 11/12	254/255	1800-0000	36	2245	-	

Table 1.--Researcher precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 12	255	0000-0600	0.5	-	0115	
Sept 12	255	0600-1200	T	0710	0711	
"	"	" "		Unknown	Unknown	0800 observation showed slight drizzle.
Sept 12	255	1200-1800	2	1245	1305	
"	"	" "		1620	-	
Sept 12/13	255/256	1800-0000	1	-	1901	
"	" "	" "		2000	2145	
Sept 13/14	256/257	1800-0000	1	2335	2355	
Sept 14	257	1200-1800	1	1457	1510	
Sept 15	258	0000-0600	T	0553	-	
Sept 15	258	0600-1200	T	-	0603	
Sept 16	259	0600-1200	34	1030	-	
Sept 16	259	1200-1800	8	-	1210	
"	"	" "		1640	-	
Sept 16/17	259/260	1800-0000	23	-	1940	
"	" "	" "		1944	-	
Sept 17	260	0000-0600	0.1	-	0045	
"	"	" "		0546	-	
Sept 17	260	0600-1200	2	-	0633	
"	"	" "		0647	0728	
"	"	" "		0742	0743	
Sept 17	260	1200-1800	1	1501	1504	
"	"	" "		1553	1730	
"	"	" "		1750	-	
Sept 17/18	260/261	1800-0000	0.6	-	1921	
"	" "	" "		1945	2330	

Table 1.--Researcher precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 17/18	260/261	1800-0000		2355	-	
Sept 18	261	0000-0600	3	-	0230	
"	"	" "		0400	0408	
Sept 19/20	262/263	1800-0000	0.5	1804	1820	
"	" "	" "		2000	Unknown	
Sept 20/21	263/264	0000-0000	26	Unknown	Unknown	Total is 24-hr amount
Sept 21	264	0000-1200	12	0412	0546	Total is 12-hr amount
"	"	" "		0707	0930	
Sept 21/22	264/265	1200-0000	Unknown	1528	1602	
Sept 22	265	0000-1200	19	0000	0115	Total is 12-hr amount

Table 2.-- Gilliss precipitation data from standard WMO marine logs

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
June 28/29	179/180	1800-0000	T	2340	-	
June 29	180	0000-0600	T	-	0030	
June 29/30	180/181	1800-0000	T	1815	1817	
June 30/July 1	181/182	1800-0000	T	2210	2240	
July 2/3	183/184	1800-0000	1	1853	2020	
July 5	186	0600-1200	T	0912	0945	
July 6	187	0000-0600	T	0135	0200	
July 6	187	1200-1800	2	1353	1357	
"	"	" "		1515	1608	
"	"	" "		1745	-	
July 6/7	187/188	1800-0000	21	-	2025	
"	"	" "		2130	-	
July 7	188	0000-0600	41	-	0550	
July 7	188	0600-1200	T	0915	0935	
July 7/8	188/189	1800-0000	T	1929	1945	
July 8	189	0000-0600	0.3	0247	0453	
"	"	" "		0511	0543	
July 8	189	1200-1800	4	1630	1750	
July 8/9	189/190	1800-0000	5	1814	2045	
July 13	194	0600-1200	T	1011	1012	
"	"	" "		1101	1120	
July 14	195	0000-0600	1	0218	0235	
July 14	195	0600-1200	21	0831	0842	
"	"	" "		1011	1012	
"	"	" "		1053	-	
July 14	195	1200-1800	30	-	1410	
"	"	" "		1540	1610	

Table 2.-- Gilliss precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 14	195	1200-1800		1710	-	
July 14/15	195/196	1800-0000	0.3	-	1825	
" "	" "	" "		2023	2050	
" "	" "	" "		2120	2315	
July 15	196	0000-0600	3	0031	0134	
" "	" "	" "		0140	0252	
July 15	196	0600-1200	0.5	1019	1135	
July 15	196	1200-1800	T	1717	1747	
" "	" "	" "		1757	-	
July 15/16	196/197	1800-0000	T	-	1910	
" "	" "	" "		1925	2004	
July 16	197	0600-1200	T	0715	0720	
July 16	197	1200-1800	T	1205	1255	
" "	" "	" "		1618	1625	
" "	" "	" "		1653	1715	
Aug 5	217	1200-1800	T	1728	1740	
Aug 6	218	0000-0600	7	0500	-	
Aug 6	218	0600-1200	18	-	1230	
" "	" "	" "		1545	1558	
Aug 6	218	1200-1800	T	1200	1230	
" "	" "	" "		1545	1558	
Aug 6/7	218/219	1800-0000	1	1920	2045	
" "	" "	" "		2120	2145	
Aug 7	219	0000-0600	0.3	0445	0515	
Aug 7	219	1200-1800	5	1552	1740	
Aug 8	220	0600-1200	5	0845	0920	
" "	" "	" "		1107	1143	
Aug 8	220	1200-1800	7	1211	1515	

Table 2.-- Gilliss precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Aug 8/9	220/221	1800-0000	17	1535	1815	
" "	" "	" "		2003	2102	
" "	" "	" "		2235	-	
Aug 9	221	0000-0600	Unknown	-	0015	Gage not read.
Aug 10	222	0600-1200	8	0802	1137	
Aug 10	222	1200-1800	0.3	1440	1456	
" "	" "	" "		1550	1555	
Aug 12/13	224/225	1800-0000	0.5	2048	2057	
" "	" "	" "		2200	2223	
" "	" "	" "		2345	-	
Aug 13	225	0000-0600	2	-	0035	
" "	" "	" "		0200	0220	
Aug 13	225	0600-1200	T	0655	0700	
Aug 13/14	225/226	1800-0000	0.5	1957	2135	
" "	" "	" "		2250	-	
Aug 14	226	0000-0600	0.5	-	0020	
Aug 14	226	0600-1200	T	0820	0840	
" "	" "	" "		0932	1003	
" "	" "	" "		1005	1045	
Aug 14	226	1200-1800	T	1503	1545	
" "	" "	" "		1608	1740	
Aug 14/15	226/227	1800-0000	1	1903	1952	
Aug 15	227	1200-1800	1	1530	1622	
Aug 15/16	227/228	1800-0000	1	Unknown	Unknown	6-hr total may be in error.
Aug 17	229	0600-1200	T	0702	0705	

Table 2.-- Gilliss precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Aug 17	229	0600-1200		0931	0948	
Aug 17	229	1200-1800	1	1333	1350	
"	"	" "		1551	1602	
"	"	" "		1608	-	
Aug 17/18	229/230	1800-0000	6	-	2107	
Aug 30	242	0000-0600	5	0004	0050	End time may be in error 0900; observa- tion indicated pre- cipitation.
"	"	" "		0200	0405	
Aug 30	242	0600-1200	0.3	Unknown	Unknown	
"	"	" "		1145	-	
Aug 30	242	1200-1800	0.3	-	1230	
Aug 30/31	242/243	1800-0000	13	1820	2140	
Sept 1	244	0600-1200	T	0722	0740	
Sept 2	245	0600-1200	20	0718	0721	
"	"	" "		1043	1132	
Sept 2	245	1200-1800	13	1320	1355	
"	"	" "		1419	1715	
Sept 2/3	245/246	1800-0000	2	1902	1940	
"	" "	" "		2314	2342	
Sept 3	246	0600-1200	2	0700	0715	
Sept 3	246	1200-1800	0.2	1432	1440	
Sept 4	247	1200-1800	T	1252	1328	
Sept 5	248	0000-0600	1	0202	0245	
"	"	" "		0340	0345	

Table 2.-- Gilliss precipitation data from standard WMO marine logs (continued)

Date (1974)	Julain day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 5	248	0600-1200	27	0735	0747	
"	"	" "		0925	-	
Sept 5	248	1200-1800	15	-	1325	
"	"	" "		1410	1710	
Sept 5/6	248/249	1800-0000	4	1841	2245	End time estimated; no precipitation reported for 2300 observation.
Sept 7	250	1200-1800	T	1357	1404	
Sept 7/8	250/251	1800-0000	T	1815	1825	
Sept 8	251	1200-1800	T	1751	-	
Sept 8/9	251/252	1800-0000	T	-	1819	
" "	" "	" "		1847	1950	
Sept 10	253	0600-1200	0.5	0630	0655	
"	"	" "		0712	0930	
Sept 10	253	1200-1800	7	1441	1515	
"	"	" "		1550	1625	
Sept 11/12	245/255	1800-0000	0.3	2245	2255	
Sept 12	255	1200-1800	T	1309	1318	
Sept 12/13	255/256	1800-0000	T	Unknown	Unknown	Times not specified.
Sept 13	256	0600-1200	T	1122	1131	
"	"	" "		1158	-	
Sept 13	256	1200-1800	0.3	-	1235	
"	"	" "		1750	-	
Sept 13/14	256/257	1800-0000	32	-	1825	
" "	" "	" "		1845	-	
Sept 14	257	0000-0600	1	-	0030	

Table 2.-- Gilliss precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 14	257	0000-0600		0255	0600	
Sept 14	257	0600-1200	14	0920	-	
Sept 14	257	1200-1800	22	-	1435	
"	"	" "		1502	1530	
"	"	" "		1550	1725	
Sept 14/15	257/258	1800-0000	T	1844	1915	
Sept 15	258	0000-0600	0.2	Unknown	Unknown	Times not specified.
Sept 15	258	0600-1200	T	0815	0822	
Sept 16	259	0000-0600	T	0200	0310	0400 observed pre- also indicated pre- cipitation.
Sept 16	259	0600-1200	2	0620	0805	
"	"	" "		0905	0935	
"	"	" "		1030	-	
Sept 16	259	1200-1800	4	-	1318	
"	"	" "		1440	1532	
Sept 16/17	259/260	1800-0000	9	2145	2215	
"	"	" "		2250	-	
Sept 17	260	0000-0600	7	-	0345	
"	"	" "		0400	0430	
Sept 17	260	0600-1200	11	0740	0810	
"	"	" "		0820	0825	
"	"	" "		0840	-	
Sept 17	260	1200-1800	15	-	1320	
"	"	" "		1445	1527	
Sept 17/18	260/261	1800-0000	T	1822	1831	
Sept 18	261	1200-1800	T	1220	1230	
Sept 18/19	261/262	1800-0000	3	1829	1910	

Table 2.-- Gilliss precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 18/19	261/262	1800-0000		2217	2237	
Sept 19	262	0000-0600	2.0	0056	0125	
"	"	" "		0155	0200	
Sept 19	262	0600-1200	T	1057	-	
Sept 19	262	1200-1800	0.2	-	1240	
Sept 19/20	262/263	1800-0000	Unknown	1810	Unknown	
Sept 20	263	0000-0600	3	0200	0220	
"	"	" "		0250	0318	
Sept 20	263	0600-1200	13	0925	-	
Sept 20	263	1200-1800	10	-	1245	
"	"	" "		1307	1415	
Sept 21	264	0000-0600	T	Unknown	Unknown	Precipitation on 0300 observation.
Sept 21	264	0600-1200	0.6	0840	0948	
Sept 21	264	1200-1800	T	1342	1410	
"	"	" "		1528	1548	
"	"	" "		1612	1618	
Sept 21/22	264/265	1800-0000	7	2330	-	
Sept 22	265	0000-0600	2	-	0050	
"	"	" "		0114	0135	
Sept 22/23	265/266	1800-0000	T	2326	2335	

Table 3.--Dallas precipitation data from standard WMO marine logs

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
June 28	179	0000-0600	T	Unknown	Unknown	
June 28/29	179/180	1800-0000	T	2340	-	
June 29	180	0000-0600	2	-	-	
June 29	180	0600-1200	4	-	-	
June 29	180	1200-1800	T	-	1255	
June 29/30	180/181	1800-0000	T	2230	2330	
June 30	181	0000-0600	0.5	0105	0340	
"	"	" "		0510	0532	
June 30	181	0600-1200	T	0745	1005	
June 30	181	1200-1800	1	1205	1350	
June 30/July 1	181/182	1800-0000	T	1709	1845	
July 1	182	0000-0600	0.3	0030	0100	
"	"	" "		0306	-	
July 1	182	0600-1200	T	-	0620	
July 1	182	1200-1800	T	1402	1435	
July 1/2	182/183	1800-0000	T	1910	1930	
July 2	183	0000-0600	T	0515	0540	
July 2	183	0600-1200	2	0925	-	
July 2	183	1200-1800	24	-	1630	Intermittent drizzle reported at 1700,1800 and 1900 GMT.
July 2/3	183/184	1800-0000	T	2320	-	
July 3	184	0000-0600	0.3	-	0300	
July 3	184	0600-1200	T	0415	0735	
July 3/4	184/185	1800-0000	T	2310	2350	
July 4/5	185/186	1800-0000	T	2130	2215	
July 6/7	187/188	1800-0000	T	2250	2320	

Table 3.--Dallas precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 7	188	0000-0600	0.3	0105	0135	
"	"	" "		0355	0400	
July 7	188	0600-1200	T	1020	1040	
"	"	" "		1135	1145	
July 7	188	1200-1800	7	1237	-	
July 7/8	188/189	1800-0000	T	-	2010	
July 8	189	0600-1200	4	0847	-	
July 8	189	1200-1800	8	-	1806	
July 8/9	189/190	1800-0000	T	2315	-	
July 9	190	0000-0600	Unknown	-	0205	
July 12	193	0600-1200	Unknown	0609	0705	
July 13	194	0000-0600	5	0050	-	
July 13	194	0600-1200	0.3	-	0700	
July 13	194	1200-1800	T	1320	1330	
"	"	" "		1420	1455	
July 13/14	194/195	1800-0000	15	1800	2045	
"	"	" "		2200	2235	
"	"	" "		2350	-	
July 14	195	0000-0600	10	-	0600	
July 14	195	0600-1200	T	1150	-	
July 14	195	1200-1800	T	-	1300	
July 15/16	196/197	1800-0000	Unknown	1910	1940	
July 16	197	0000-0600	0.3	0250	0258	
July 16	197	0600-1200	T	0638	0715	
July 27/28	208/209	1800-0000	T	Unknown	Unknown	
July 28	209	0000-0600	26	0115	0240	

Table 3.--Dallas precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 28	209	0600-1200	16	0350	0400	
"	"	" "		0602	0730	
"	"	" "		0815	1025	
July 29	210	0000-0600	T	Unknown	1115	
July 29	210	0600-1200	4	0540	-	
July 30	211	0000-0600	14	-	0750	
July 30	211	0600-1200	3	0250	0506	
July 30	211	0600-1200		1110	1340	
July 30	211	1200-1800	15	1505	1530	
"	"	" "		1731	-	
July 30/31	211/212	1800-0000	7	-	2210	
July 31	212	0000-0600	0.5	Unknown	Unknown	
July 31	212	0600-1200	0.2	Unknown	Unknown	
Aug 1	213	0000-0600	1	0055	0120	
"	"	" "		0320	0430	
Aug 1	213	0600-1200	13	0905	0925	
Aug 1	213	1200-1800	19	1215	1230	
"	"	" "		1315	1510	
"	"	" "		1555	1635	
"	"	" "		1730	-	
Aug 1/2	213/214	1800-0000	9	-	1945	
"	"	" "		2240	-	
Aug 2	214	0000-0600	7	-	0145	
"	"	" "		0305	0330	
"	"	" "		0445	-	
Aug 2	214	0600-1200	47	-	-	

Table 3.--Dallas precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Aug 2	214	1200-1800	14	-	1710	
Aug 2/3	214/215	1800-0000	9	1831	2035	
Aug 3	215	0000-0600	7	0040	0310	
Aug 3	215	0600-1200	0.6	0640	1155	
Aug 4	216	0600-1200	3	0655	0715	
Aug 5	217	0000-0600	3	0015	0155	
Aug 5	217	0600-1200	26	0640	Unknown	
"	"	" "		0845	1050	
Aug 5	217	1200-1800	0.2	1740	-	
Aug 5/6	217/218	1800-0000	T	-	1805	
Aug 6	218	0000-0600	T	0020	0045	
Aug 6	218	1200-1800	2	1240	1310	
"	"	" "		1738	1753	
Aug 8	220	0000-0600	T	0300	0315	
Aug 8	220	0600-1200	0.3	Unknown	Unknown	
Aug 8	220	1200-1800	2	1600	1725	
Aug 8/9	220/221	1800-0000	2	1850	1910	
"	"	" "		1935	Unknown	
Aug 10	222	0600-1200	1	0625	0645	
"	"	" "		1150	-	
Aug 10	222	1200-1800	0.2	-	1230	
Aug 12	224	0600-1200	0.2	Unknown	Unknown	
Aug 12	224	1200-1800	4	1205	1415	
"	"	" "		1540	1800	
Aug 12/13	224/225	1800-0000	1	1850	0000	
Aug 16	228	1200-1800	T	1748	-	
Aug 16/17	228/229	1800-0000	T	-	1822	

Table 3.--Dallas precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Aug 17	229	1200-1800	T	Unknown	Unknown	Precipitation occurred but not measured.
Aug 17/18	229/230	1800-0000	Unknown	Unknown	Unknown	
Aug 18	230	0600-1200	2	Unknown	Unknown	
Aug 18/19	230/231	1800-0000	14	Unknown	Unknown	
Aug 19	231	0000-0600	25	Unknown	Unknown	
Aug 19	231	0600-1200	8	Unknown	Unknown	
Aug 19	231	1200-1800	2	Unknown	Unknown	
Aug 30	242	0000-0600	1	0130	0450	
Aug 30/31	242/243	1800-0000	T	2005	2035	
Sept 2	245	1200-1800	1	1705	-	
Sept 2/3	245/246	1800-0000	T	-	1855	
Sept 3	246	0600-1200	3	0650	0715	
Sept 3	246	1200-1800	4	1610	1655	
Sept 3/4	246/247	1800-0000	2	1910	2000	
Sept 4/5	247/248	1800-0000	T	2045	2118	
Sept 5	248	0600-1200	0.3	0705	0715	
"	"	" "		0940	1105	
Sept 5	248	1200-1800	12	1235	1520	
Sept 6	249	0600-1200	2	0725	0730	
Sept 6/7	249/250	1800-0000	T	2230	2240	
Sept 7	250	0000-0600	T	0105	0130	
Sept 8	251	0000-0600	T	0545	0555	
Sept 9	252	0600-1200	7	0600	0615	
"	"	" "		0905	1025	
Sept 9	252	1200-1800	7	1600	1615	

Table 3.--Dallas precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 9	252	1200-1800		1740	-	
Sept 9/10	252/253	1800-0000	1	-	1856	
"	"	"		2015	2020	
Sept 11	254	0600-1200	T	Unknown	Unknown	
Sept 11/12	254/255	1800-0000	0.2	2245	Unknown	
Sept 12	255	0000-0600	3	0330	0545	
Sept 12	255	0600-1200	85	0715	-	
Sept 12	255	1200-1800	10	-	1515	
Sept 13	256	0000-0600	0.2	0410	0435	
Sept 13	256	0600-1200	5	0815	-	
Sept 13	256	1200-1800	39	-	1750	
Sept 13/14	256/257	1800-0000	27	1905	-	
Sept 14	257	0000-0600	14	-	0540	
Sept 14	257	0600-1200	3	0845	1115	
Sept 14/15	257/258	1800-0000	1	1925	2000	
Sept 16	259	0000-0600	5	0010	Unknown	
Sept 16	259	0600-1200	1	Unknown	Unknown	
Sept 16	259	1200-1800	1	1512	1535	
Sept 16/17	259/260	1800-0000	T	2255	2350	
Sept 17	260	0000-0600	6	0235	0315	
Sept 17	260	0600-1200	T	Unknown	Unknown	
Sept 17/18	260/261	1800-0000	T	2130	2135	
Sept 18/19	261/262	1800-0000	Unknown	1835	1915	
"	"	"		2000	2040	

Table 4.--Oceanographer precipitation data from standard WMO marine logs

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
June 28	179	1200-1800	8	1245	1321	
"	"	" "		1432	1625	
"	"	" "		1700	-	
June 28/29	179/180	1800-0000	T	1700	1915	
"	"	" "		1950	2005	
"	"	" "		2220	2235	
"	"	" "		2352	-	
June 29	180	0000-0600	T	-	0048	
"	"	" "		0301	0530	
June 29	180	0600-1200	T	0853	0923	
June 29	180	1200-1800	T	1710	1735	
June 29/30	180/181	1800-0000	14	1900	2220	
June 30	181	0000-0600	T	0545	-	
June 30	181	0600-1200	T	-	0630	
June 30	181	1200-1800	2	1353	1418	
June 30/July 1	181/182	1800-0000	12	2053	2157	
July 1	182	0000-0600	8	0201	0325	
July 1	182	0600-1200	0.3	0715	0800	
July 1	182	1200-1800	T	1715	-	
July 1/2	182/183	1800-0000	0.3	-	1815	
"	"	" "		2017	2041	
"	"	" "		2301	2310	
July 2	183	0000-0600	T	0003	0017	
"	"	" "		0345	0400	
July 2	183	0600-1200	21	0605	-	
July 2	183	1200-1800	4	-	1530	

Table 4.--Oceanographer precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 2	183	1200-1800		1645	1745	
July 3	184	1200-1800	T	1508	1530	
"	"	" "		1745	1800	
July 4	185	0600-1200	0.3	1142	-	
July 4	185	1200-1800	T	-	1218	
"	"	" "		1550	1615	
July 4/5	185/186	1800-0000	0.3	2027	2032	
"	"	" "		2045	2055	
July 5	186	0000-0600	T	0005	0021	
July 7	188	0000-0600	3	0200	0212	
"	"	" "		0435	0540	
July 7	188	0600-1200	5	0605	0710	
"	"	" "		0750	1015	
July 7	188	1200-1800	29	1640	-	
July 7/8	188/189	1800-0000	110	-	-	
July 8	189	0000-0600	49	-	-	
July 8	189	0600-1200	2	-	0745	
"	"	" "		1002	1020	
July 8	189	1200-1800	7	1118	1138	
"	"	" "		1507	1515	
"	"	" "		1600	-	
July 8/9	189/190	1800-0000	3	-	2215	
July 12/13	193/194	1800-0000	T	2206	2227	
July 13	194	0600-1200	T	0834	0837	
"	"	" "		0901	0904	
July 13	194	1200-1800	T	1254	1309	

Table 4.--Oceanographer precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 13/14	194/195	1800-0000	2	2000	2025	
" "	" "	" "		2050	2102	
" "	" "	" "		2214	2217	
" "	" "	" "		2220	2227	
July 14	195	0000-0600	11	0027	0247	
" "	" "	" "		0413	0530	
July 14	195	0600-1200	0.3	0738	0750	
" "	" "	" "		1024	1027	
July 14	195	1200-1800	T	1715	1730	
July 14/15	195/196	1800-0000	T	1830	1845	
" "	" "	" "		1917	2003	
" "	" "	" "		2250	2255	
July 15	196	0000-0600	25	0102	0515	
" "	" "	" "		0525	0545	
July 15	196	0600-1200	4	0630	1130	
July 15	196	1200-1800	T	1255	1333	
July 27	208	1200-1800	T	1257	1305	
July 28	209	0000-0600	0.3	0001	0025	
July 29	210	0000-0600	T	0200	0208	
July 29	210	0600-1200	T	0747	0752	
" "	" "	" "		0819	0825	
" "	" "	" "		0903	0920	
July 29	210	1200-1800	T	1790	1744	
July 29/30	210/211	1800-0000	T	2331	2340	
July 30	211	0600-1200	T	1100	1118	
Aug 2/3	214/215	1800-0000	14	2115	2300	
Aug 3	215	0000-0600	T	0000	0013	

Table 4.--Oceanographer precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Aug 3/4	215/216	1800-0000	0.3	1937	2010	
Aug 5	217	0600-1200	T	0812	0818	
Aug 5	217	1200-1800	3	1236	1251	
Aug "	"	" "		1403	1455	
Aug 5/6	217/218	1800-0000	1	2305	2320	
Aug 7	219	0000-0600	T	0050	0055	
Aug "	"	" "		0105	0114	
Aug 8	220	0600-1200	2	0846	0858	
Aug "	"	" "		0931	1004	
Aug 8	220	1200-1800	2	1711	-	
Aug 8/9	220/221	1800-0000	2	-	1915	
Aug 10	222	0000-0600	12	0050	0153	
Aug "	"	" "		0424	0535	
Aug 10	222	0600-1200	T	1131	1134	
Aug 12	224	1200-1800	0.2	1320	1340	
Aug "	"	" "		1425	1455	
Aug 12/13	224/225	1800-0000	0.2	2316	2321	
Aug 14	226	0600-1200	T	1045	1050	
Aug 16	228	1200-1800	T	1732	1747	
Aug 16/17	228/229	1800-0000	T	2304	-	
Aug 17	229	0000-0600	T	-	0010	
Aug 17	229	1200-1800	T	1330	1334	
Aug "	"	" "		1515	1530	
Aug "	"	" "		1610	1616	
Aug 17/18	229/230	1800-0000	T	1800	1832	
Aug 18	230	0000-0600	T	0304	0326	
Aug 18	230	0600-1200	27	0737	1048	

Table 4.--Oceanographer precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Aug 29	241	1200-1800	10	1640	1655	
"	"	" "		1704	-	
Aug 29/30	241/242	1800-0000	3	-	1820	
"	"	" "		1905	2120	
"	"	" "		2230	2250	
Aug 30	242	0000-0600	12	0000	0410	
Aug 30	242	1200-1800	T	1352	1435	
Aug 31	243	0000-0600	T	0005	0015	
Sept 2	245	0000-0600	2	0042	0143	
Sept 2	245	1200-1800	1	1255	1405	
"	"	" "		1508	1523	
"	"	" "		1735	-	
Sept 2/3	245/246	1800-0000	T	-	1848	
"	"	" "		1937	1945	
Sept 3	246	0600-1200	T	0606	0612	
"	"	" "		1052	1104	
Sept 4	247	0000-0600	3	0517	-	
Sept 4	247	0600-1200	1	-	0601	
"	"	" "		0612	0624	
"	"	" "		0804	0816	
"	"	" "		0918	0950	
Sept 4	247	1200-1800	22	1326	1748	
Sept 5	248	0000-0600	T	0323	0338	
Sept 5	248	1200-1800	2	1632	1712	
"	"	" "		1748	-	
Sept 5/6	248/249	1800-0000	3	-	1931	
Sept 6	249	0000-0600	3	0154	0208	
"	"	" "		0220	0228	

Table 4.--Oceanographer precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 6	249	0000-0600		0435	0445	
"	"	" "		0455	-	
Sept 6	249	0600-1200	11	-	0900	
"	"	" "		0945	1015	
"	"	" "		1255	-	
Sept 6	249	1200-1800	2	-	1315	
"	"	" "		1404	1408	
"	"	" "		1520	1530	
"	"	" "		1720	1731	
"	"	" "		1750	-	
Sept 6/7	249/250	1800-0000	8	-	1801	
"	" "	" "		2002	2130	
Sept 7	250	0000-0600	T	0539	0554	
"	"	" "		0557	-	
Sept 7	250	0600-1200	0.5	-	0610	
Sept 11/12	254/255	1800-0000	13	1815	2345	
Sept 12	255	1200-1800	21	1253	1610	
Sept 14	257	0000-0600	T	0522	0531	
Sept 16	259	0000-0600	T	0555	-	
Sept 16	259	0600-1200	14	-	0650	
"	"	" "		0907	-	
Sept 16	259	1200-1800	10	-	1445	
"	"	" "		1628	1736	
Sept 16/17	259/260	1800-0000	T	1802	1843	
Sept 17	260	0000-0600	T	0544	-	
Sept 17	260	0600-1200	T	-	0622	
Sept 17	260	1200-1800	5	1320	1328	
"	"	" "		1404	1450	

Table 4.--Oceanographer precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 18/19	261/262	1800-0000	T	1850	1901	
"	"	" "		2005	2014	
Sept 19	262	1200-1800	21	1210	1721	
Sept 20	263	0600-1200	16	0940	1120	
Sept 20	263	1200-1800	4	1215	1320	
Sept 21	264	0000-0600	2	0335	0351	
Sept 21	264	1200-1800	T	1520	1530	
Sept 21/22	264/265	1800-0000	11	2140	2205	
"	"	" "		2340	-	
Sept 22	265	0000-0600	4	-	0020	

Table 5.--Vanguard precipitation data from standard WMO marine logs

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
June 20	171	0000-0600	6	0405	0510	
June 21	172	0000-0600	T	0541	-	
June 21	172	0000-1200	0.2	-	0910	
June 24	175	0600-1200	T	1120	1130	
June 28	179	1000-1200	T	Unknown	Unknown	
June 28	179	1200-1800	T	Unknown	Unknown	
June 28/29	179/180	1800-0000	T	Unknown	Unknown	
June 29	180	0000-0600	T	Unknown	0205	
June 29	180	1200-1800	T	1545	-	
June 29/30	180/181	1800-0000	26	-	2040	
"	"	" "		2245	-	
June 30	181	0000-0600	0.2	-	0015	
June 30	181	1200-1800	2	1355	1415	
"	"	" "		1540	1608	
June 30/July 1	181/182	1800-0000	11	2040	2230	
July 1	182	0000-0600	10	0130	0310	
July 1	182	1200-1800	2	1530	1630	
July 1/2	182/183	1800-0000	2	1940	2120	
July 2	183	0000-0600	9	0019	0050	
"	"	" "		0210	0350	
"	"	" "		0445	-	
July 2	183	0600-1200	14	-	0605	
"	"	" "		0715	1100	
July 2	183	1200-1800	8	1145	Unknown	
"	"	" "		1550	Unknown	
July 2/3	183/184	1800-0000	5	1920	1945	
"	"	" "		Unknown	2030	

Table 5.--Vanguard precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 3	184	1200-1800	0.2	1452	1503	
"	"	"		1514	1524	
"	"	"		1640	1650	
"	"	"		1750	-	
July 3/4	184/185	1800-0000	T	-	1805	
July 4	185	0600-1200	3	Unknown	Unknown	
July 4	185	1200-1800	3	1205	1215	
July 4/5	185/186	1800-0000	1	1955	2010	
"	"	"		2120	2140	
"	"	"		2230	2305	
July 7	188	0000-0600	3	0505	-	
July 7	188	0600-1200	16	-	0710	
"	"	"		0720	1040	
July 7	188	1200-1800	12	1643	-	
July 7/8	188/189	1800-0000	12	-	2010	
"	"	"		2040	2110	
"	"	"		2130	-	
July 8	189	0000-0600	14	-	0500	
July 8	189	0600-1200	2	0715	0725	
"	"	"		0940	1200	
July 8	189	1200-1800	12	1537	-	
July 8/9	189/190	1800-0000	30	-	1810	
July 9	190	0000-0600	T	1930	2140	
"	"	"		0150	0210	
July 9	190	0600-1200	T	0440	0510	
"	"	"		1150	1158	
July 13	194	0600-1200	T	0858	0907	
July 13	194	1200-1800	T	1300	1305	

Table 5.--Vanguard precipitation data from standard WMO marine logs (continued)

Date (1974)	Julain day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 13/14	194/195	1800-0000	10	1944	2015	
July 14	195	0000-0600	6	0020	0030	
"	"	" "		0210	0335	
July 14	195	0600-1200	2	0735	0748	
July 14/15	195/196	1800-0000	9	1940	2000	
"	"	" "		2010	2110	
"	"	" "		2250	2310	
July 15	196	0000-0600	21	0020	0040	
"	"	" "		0055	0320	
July 15	196	0600-1200	5	0605	-	
July 15	196	1200-1800	T	-	1230	
July 17	198	0000-0600	1	0005	0025	
"	"	" "		0105	0130	
July 17	198	0600-1200	6	1055	-	
July 17	198	1200-1800	6	-	1405	
July 17/18	198/199	1800-0000	26	2310	-	
July 18	199	0000-0600	1	-	0050	
"	"	" "		0535	-	
July 18	199	0600-1200	32	-	0620	
"	"	" "		0920	0950	
July 19	200	0000-0600	4	1840	1930	
July 28	209	0600-1200	4	1105	-	
July 28	209	1200-1800	8	-	1300	
"	"	" "		1425	1510	
July 29	210	0000-0600	3	0030	0040	
"	"	" "		0050	-	
July 29	210	0600-1200	1	-	0605	
"	"	" "		0630	0730	

Table 5.--Vanguard precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
July 29	210	1200-1800	17	1340	1405	
"	"	"		1420	1550	
"	"	"		1655	1705	
"	"	"		1718	Unknown	
July 29/30	210/211	1800-0000	1	1756	1815	
July 30	211	0000-0600	2	0355	-	
July 30	211	0600-1200	1	-	0630	
"	"	"		1015	1030	
"	"	"		1040	1105	
Aug 1	213	0000-0600	1	0030	0045	
"	"	"		0240	0315	
"	"	"		0350	0410	
"	"	"		0555	-	
Aug 1	213	0600-1200	1	1120	1155	
Aug 1	213	1200-1800	24	1340	Unknown	
"	"	"		1420	1505	
Aug 1/2	213/214	1800-0000	2	Unknown	1838	
"	"	"		1935	2230	
Aug 2	214	0600-1200	11	0720	0735	
"	"	"		0935	1010	
Aug 3	215	1200-1800	1	1235	1250	
Aug 3/4	215/216	1800-0000	T	2240	2303	
Aug 4	216	0000-0600	0.3	0015	0035	
"	"	"		0130	0145	
Aug 5	217	1200-1800	3	1733	-	
Aug 5/6	217/218	1800-0000	3	-	1810	
"	"	"		1950	2040	
Aug 6	218	0000-0600	10	0140	0235	

Table 5.--Vanguard precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Aug 6	218	0000-0600		0320	-	
Aug 6	218	0600-1200	6	-	0920	
Aug 6/7	218/219	1800-0000	0.3	1801	1815	
Aug 7	219	0600-1200	T	1110	1120	
Aug 7/8	219/220	1800-0000	18	2150	2210	
" "	" "	" "		2240	2340	
" "	" "	" "		2345	-	
Aug 8	220	0000-0600	12	-	0025	
" "	" "	" "		0255	-	
Aug 8	220	0600-1200	5	-	0640	
" "	" "	" "		0740	1105	
Aug 8	220	1200-1800	1	1520	1620	
Aug 8/9	220/221	1800-0000	1	1805	1830	
" "	" "	" "		2310	2330	
Aug 9	221	0000-0600	2	0535	0555	
Aug 9	221	0600-1200	2	0605	0620	
Aug 9	221	1200-1800	0.3	1435	1445	
" "	" "	" "		1740	-	
Aug 9/10	221/222	1800-0000	10	-	1810	
" "	" "	" "		1950	Unknown	
" "	" "	" "		2036	2158	
Aug 10	222	0000-0600	1	0250	0310	
Aug 10	222	0600-1200	0.5	0820	1105	
" "	" "	" "		1125	1135	
Aug 10	222	1200-1800	0.5	1355	Unknown	
" "	" "	" "		1505	1510	
Aug 12	224	0600-1200	T	0850	0855	
Aug 12	224	1200-1800	0.5	1420	1445	

Table 5.--Vanguard precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Aug 12/13	224/225	1800-0000	18	1930	2000	
" "	" "	" "		2100	2115	
" "	" "	" "		2245	-	
Aug 13	225	0000-0600	17	-	0450	
" "	" "	" "		0540	-	
Aug 13	225	0600-1200	4	-	0615	
" "	" "	" "		0750	0905	
" "	" "	" "		0930	1030	
" "	" "	" "		1105	1115	
" "	" "	" "		1140	-	
Aug 13	225	1200-1800	51	-	1201	
" "	" "	" "		1615	-	
Aug 13/14	225/226	1800-0000	13	-	2140	
Aug 18	230	0000-0600	16	0545	-	
Aug 18	230	0600-1200	T	-	0615	
Aug 30	242	1200-1800	T	1630	1700	
Sept 1	244	0000-0600	T	0530	0545	
Sept 2	245	0000-0600	0.3	0145	0210	
Sept 2/3	245/246	1800-0000	T	1955	2001	
Sept 3	246	1200-1800	T	1235	1245	
Sept 4	247	0600-1200	T	1145	1150	
Sept 4	247	1200-1800	T	1640	1642	
Sept 5	248	0000-0600	T	0435	0505	
Sept 5/6	248/249	1800-0000	T	1825	1845	
" "	" "	" "		2030	2035	
Sept 6	249	0000-0600	0.3	0225	0240	

Table 5.---Vanguard precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 6	249	1200-1800	2	1720	1745	
"	"	" "		1750	1805	
Sept 6/7	249/250	1800-0000	0.3	2120	2125	
"	"	" "		2245	2250	
Sept 7	250	0000-0600	5	0050	0130	
"	"	" "		0140	0205	
Sept 7	250	0600-1200	T	0840	0850	
Sept 8	251	0600-1200	0.3	0610	0800	
"	"	" "		1050	1130	
Sept 9	252	0600-1200	4	0615	0715	
"	"	" "		0750	0900	
Sept 9	252	1200-1800	55	1455	-	
Sept 9/10	252/253	1800-0000	7	-	2030	
"	"	" "		2040	2215	
Sept 10	253	0600-1200	0.6	0840	0855	
Sept 10	253	1200-1800	6	1240	1320	
Sept 11	254	1200-1800	1	1420	1450	
"	"	" "		1500	1515	
"	"	" "		1625	1630	
Sept 11/12	254/255	1800-0000	7	2150	2205	
Sept 12	255	0600-1200	1	0950	1010	
Sept 13	256	0600-1200	T	0630	0640	
Sept 13	256	1200-1800	41	1650	1705	
Sept 13/14	256/257	1800-0000	25	1720	-	
"	"	" "		-	2145	
Sept 14	257	0600-1200	1	0755	0810	
"	"	" "		0955	1005	

Table 5.--Vanguard precipitation data from standard WMO marine logs (continued)

Date (1974)	Julian day	6-hr period (GMT)	6-hr total (mm)	Time rain began	Time rain ended	Remarks
Sept 14	257	1200-1800	0.3	1120	1135	
"	"	" "		1340	1350	
"	"	" "		1550	1605	
"	"	" "		1615	1630	
"	"	" "		1745	1747	
Sept 14/15	257/258	1800-0000	43	1805	2030	
"	"	" "		2150	-	
Sept 15	258	0000-0600	0.5	-	0050	
Sept 15/16	258/259	1800-0000	0.6	2315	-	
Sept 16	259	0000-0600	2	-	0155	
"	"	" "		0245	0305	
"	"	" "		0335	0410	
Sept 16	259	0600-1200	T	1100	1105	
"	"	" "		1140	1150	
Sept 16	259	1200-1800	4	1205	1210	
"	"	" "		1345	1400	
"	"	" "		1435	1455	
Sept 16/17	259/260	1800-0000	14	1915	2025	
"	"	" "		2250	2255	
"	"	" "		0320	0350	
Sept 17	260	0000-0600	0.5	-	-	
Sept 17	260	0600-1200	5	1245	1305	
Sept 17	260	1200-1800	0.5	1345	1400	
"	"	" "		1415	1510	
"	"	" "		1825	1826	
Sept 17/18	260/261	1800-0000	T	2155	2205	
"	"	" "		0340	0505	
Sept 18	261	0000-0600	3			

3. AUTOMATICALLY RECORDED PRECIPITATION FROM MAST AND BOOM SIPHON GAGES

As noted earlier, siphon rain gages were carried on the masts and on booms extending from the bows aboard four of the U.S. ships. This sensor was specially designed for GATE by NOAA's Sea-Air Interaction Laboratory. It collected, through a funnel taken from a standard 8-in. rain gage, 0.2 mm of rainfall in a small glass reservoir. When this amount had been accumulated, it was siphoned out a small discharge tube, triggering the gage electronics to emit a short electrical pulse that was recorded automatically on digital tape by the shipboard data acquisition system. The rain collected by the mast gage was discharged into a container at the base of the mast and was then measured by conventional methods and recorded in standard WMO marine logs (see sec. 2). The rain discharged by the boom gage was dumped directly into the sea and was not remeasured. A report giving further details on the design of the siphon gage is being prepared by W. Everard of the Air-Sea Interaction Laboratory (Atlantic Oceanographic and Meteorological Laboratories, NOAA, 15 Rickenbacker Causeway, Virginia Key, Miami, Florida 33149).

The tabulations in this section include the mast and boom siphon-gage rainfall data recorded automatically aboard the Researcher, Gilliss, Dallas, and Oceanographer. For each rainfall period indicated on the standard WMO observation forms, automatically recorded data are given if the sensor was functioning and the rainfall amount exceeded 0.1 mm. Three types of information are listed:

1. Rainfall rates greater than 0.1 mm/hr.
2. Rainfall amounts for each 3-min period.
3. Total amount for the entire period of precipitation.

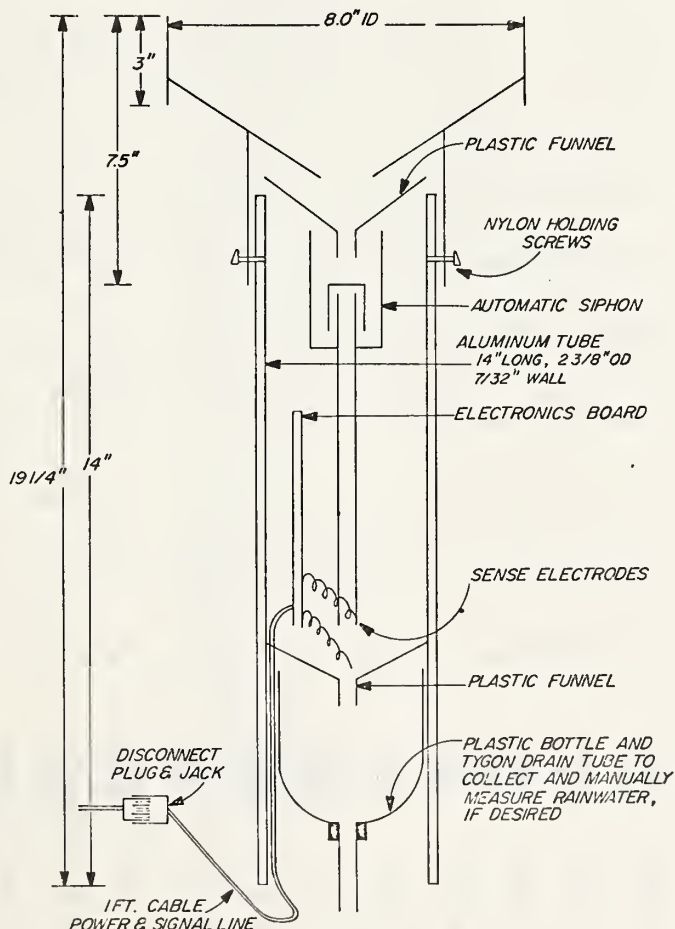
The siphon rain-gage data were edited and validated by comparing the rainfall totals with amounts measured by other rain gages on the ship, and by examining the length of the electronic output pulse and the calculated rainfall rates. Because the siphon gages proved extremely sensitive during the field operations to contamination by salt or dust sediments in the glass reservoir, much of the Dallas and Oceanographer data had to be deleted. The sensors aboard the Researcher and Gilliss operated somewhat better, although the Gilliss sensors failed before Phase III of GATE.

In the tabulations, the 3-min totals are shown in the far right column. Totals for entire precipitation periods are given at the bottom of the tables. When 0.22 mm of rain accumulated in the siphon gage over a period of more than 3 min, the rainfall amount was prorated according to the part of that time when rain fell during the 3-min period. Rainfall rates higher than 0.2 mm/hr are given under 15 categories and were calculated under the assumption that rain fell continuously between the electronic pulse recordings. For precipitation rates of between 0.2 and 4.3 mm/hr, the time between successive pulse emissions always included two more 3-min intervals. An entry of 1 under the categories from 0.2 to 4.3 mm/hr means that it was raining at some time during the 3-min period. Since multiple intervals between pulse emissions are not possible for such low precipitation rates, the maximum entry in the first five columns is always unity.

For rain rates higher than 4.3 mm/hr, it was possible for the siphon gage to dump 0.2 mm of rain more than once within a given 3-min period. The total amount within each category for a given 3-min interval could therefore be approximated by multiplying the number of occurrences by 0.2 mm.

Entries of 0 indicate that the sensor was functioning, but that no precipitation at the given rate was recorded. Blanks in the rain-rate columns and the letter M in the column of total amounts indicate that precipitation data were either missing or were deleted during data processing.

Because the siphon rain gage was a new sensor, its failure rate was high. Even some of the data that are included in the tabulations presented in this section may contain some questionable information. Occasionally, the gage electronics would be triggered spuriously, resulting in seemingly high precipitation rates. There are also differences in the rainfall totals as reported by the mast and boom gages, some of which may simply be a reflection of the typical differences in precipitation amounts observed at different locations on the ship.



Siphon gage designed by Sea-Air Interaction Laboratory.

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR																TOTAL AMOUNTS MM
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	
JUN	28	042	800M MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.13
JUN	28	045	800M MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 1	0 0	1 3	3 0	1 3	0 0	1 0	0 0	1.14 0.80
JUN	28	048	800M MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 4	2 4	5 2	2 0	1 0	2 0	2.50 1.96
JUN	28	051	800M MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 2	0 3	3 1	4 2	1 0	1 0	1 0	2.42 1.63
JUN	28	054	800M MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 1	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.55 0.52
JUN	28	057	800M MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 2	2 2	0 1	0 1	1 0	1 0	0 0	0 0	0 0	0.68 0.86
JUN	28	1 0	800M MAST	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 1	0 2	0 1	2 2	2 0	1 0	0 0	0 0	1.25 1.28
JUN	28	1 3	800M MAST	0 0	0 0	0 0	0 1	1 0	1 0	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.33 0.43
JUN	28	1 6	800M MAST	0 0	0 0	1 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.20 0.12
JUN	28	1 9	800M MAST	0 0	0 1	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.09
JUN	28	112	800M MAST	0 0	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.06
JUN	28	115	800M MAST	0 0	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.06
JUN	28	118	800M MAST	0 0	0 1	0 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.06
JUN	28	121	800M MAST	0 0	0 1	0 0	0 0	1 0	0 1	0 0	2 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.38 0.32

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0 <1.5 <2.1 <3.0 <4.3 <5.1 <8.7 <12.4 <18.0 <25.0 <36.0 <51.0 <73.0 <105.0 >															TOTAL AMOUNTS MM
		0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	
JUN 28 124	BOOM	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0.55
	MAST	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0.34
JUN 28 127	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13
	MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10
JUN 28 130	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
JUN 28 042 TO JUN 28 148 10.8 MM 8.8 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MW/HR															PROJECT: GATE			YEAR: 1974	
MONTH DAY TIME(Z) SENSOR			<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM					
JUN	28	8 9 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
JUN	28	8 12 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
JUN	28	8 15 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
JUN	28	8 18 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
JUN	28	8 21 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
JUN	28	8 24 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04					
JUN	28	8 27 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04					
JUN	28	8 30 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04					
JUN	28	8 33 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04					
JUN	28	8 36 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04					
JUN	28	8 39 BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04					
JUN	28	8 42 BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06					
JUN	28	8 45 BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07					
JUN	28	8 48 BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.08					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	TOTAL AMOUNTS MM
JUN 28 851	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10
JUN 28 854	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10
JUN 28 857	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10
JUN 28 9 0	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10
JUN 28 9 3	800M MAST	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0.24
JUN 28 9 6	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
JUN 28 9 9	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
JUN 28 912	800M MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
JUN 28 915	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUN 28 918	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUN 28 921	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUN 28 924	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUN 28 927	800M MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
JUN 28 930	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM				
JUN	28	933	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3.08				
JUN	28	936	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13				
JUN	28	939	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15				
JUN	28	942	BOOM MAST	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0.22				
JUN	28	945	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.55				
JUN	28	948	BOOM MAST	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0.37				
JUN	28	951	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.15				
JUN	28	954	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.10				
JUN	28	957	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10				
JUN	28	10 0	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08				
JUN	28	10 3	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08				
JUN	28	10 6	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06				
JUN	28	10 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				
JUN	28	10 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MW/HR															PROJECT: GATE			YEAR: 1974	
MONTH	OAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MW			
JUN	28	1015	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02			
JUN	28	1018	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02			
JUN	28	1021	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02			
JUN	28	1024	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02			
JUN	28	1027	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02			
JUN	28	1030	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02			
JUN	28	1033	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02			
JUN	28	1036	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02			
JUN	28	1039	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02			
JUN	28	1042	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02			
JUN	28	1045	800M MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.11			
JUN	28	1048	800M MAST	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0.35			
JUN	28	1051	800M MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.22			
JUN	28	1054	800M MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
JUN	28 1057	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13
JUN	28 11 0	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.17
JUN	28 11 3	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.14
JUN	28 11 6	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10
JUN	28 11 9	BOOM MAST	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.18
JUN	28 1112	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.34
JUN	28 1115	BOOM MAST	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0.54
JUN	28 1118	BOOM MAST	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0.48
JUN	28 1121	BOOM MAST	0	0	0	0	0	0	0	0	1	2	0	3	1	0	0	1.33
JUN	28 1124	BOOM MAST	0	0	0	0	0	0	0	0	0	2	1	1	4	0	0	1.77
JUN	28 1127	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	1	3	16	0	3.95
JUN	28 1130	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	2	6	11	0	3.67
JUN	28 1133	BOOM MAST	0	0	0	0	0	0	0	1	0	1	2	2	4	0	0	2.02
JUN	28 1136	BOOM MAST	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0.90

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

				OCCURRENCE OF RATES BY CLASS IN MM/HR																TOTAL AMOUNTS MM
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0			
JUN	28	1139	BOOM MAST	0	0	0	0	0	0	0	0	2	4	0	0	0	0	1.25		
JUN	28	1142	BOOM MAST	0	0	0	0	0	0	0	1	0	2	5	1	0	0	1.70		
JUN	28	1145	BOOM MAST	0	0	0	0	0	0	0	0	0	1	6	5	0	0	2.35		
JUN	28	1148	BOOM MAST	0	0	0	0	0	0	0	1	3	1	1	0	0	0	1.26		
JUN	28	1151	BOOM MAST	0	0	0	0	0	0	0	2	1	1	1	0	0	0	1.06		
JUN	28	1154	BOOM MAST	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0.78		
JUN	28	1157	BOOM MAST	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0.47		
JUN	28	12 0	BOOM MAST	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0.32		
JUN	28	12 3	BOOM MAST	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0.35		
JUN	28	12 6	BOOM MAST	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0.98		
JUN	28	12 9	BOOM MAST	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0.58		
JUN	28	1212	BOOM MAST	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.32		
JUN	28	1215	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.23		
JUN	28	1218	BOOM MAST	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0.28		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 5.1	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM	
JUN	28	1221	800M MAST	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0.47	M
JUN	28	1224	800M MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.29	M
JUN	28	1227	800M MAST	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0.26	M
JUN	28	1230	800M MAST	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0.35	M
JUN	28	1233	800M MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.20	M
JUN	28	1236	800M MAST	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.34	M
JUN	28	1239	800M MAST	0	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0.87	M
JUN	28	1242	800M MAST	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	1.08	M
JUN	28	1245	800M MAST	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0.62	M
JUN	28	1248	800M MAST	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0.56	M
JUN	28	1251	800M MAST	0	0	0	0	0	0	0	0	1	0	3	2	0	0	0	1.32	M
JUN	28	1254	800M MAST	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	1.53	M
JUN	28	1257	800M MAST	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	1.24	M
JUN	28	13 0	800M MAST	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0.69	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		PROJECT: GATE													YEAR: 1974	
		OCCURRENCE OF RATES BY CLASS IN MM/HR														
MONTH DAY TIME(Z) SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	TOTAL AMOUNTS MM
JUN 28 13 3	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.33
JUN 28 13 6	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.14
JUN 28 13 9	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.13
JUN 28 13 12	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.13
JUN 28 13 15	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.08
JUN 28 13 18	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07
JUN 28 13 21	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07
JUN 28 13 24	BOOM MAST	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0.55
JUN 28 13 27	BOOM MAST	0	0	0	0	0	0	0	1	0	2	1	2	0	0	1.20
JUN 28 13 30	BOOM MAST	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0.74
JUN 28 13 33	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.13

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUN 28 8 9 TO	JUN 28 1651	M	45.8 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		SENSOR		OCCURRENCE OF RATES BY CLASS IN MM/HR														TOTAL AMOUNTS MM
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0			
JUL	1 1333	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M 0.14		
JUL	1 1336	0	0	0	1	0	0	0	1	1	0	0	0	0	0	M 0.43		
JUL	1 1339	0	0	0	0	0	0	0	1	2	1	0	0	0	0	M 0.69		
JUL	1 1342	0	0	0	0	0	0	0	1	1	1	1	0	0	0	M 0.75		
JUL	1 1345	0	0	0	0	0	0	0	0	1	2	1	1	0	0	M 1.11		
JUL	1 1348	0	0	0	0	0	0	0	0	3	1	0	0	0	0	M 0.83		
JUL	1 1351	0	0	0	0	0	0	0	1	1	1	1	0	0	0	M 0.80		
JUL	1 1354	0	0	0	0	1	0	0	1	0	0	0	0	0	0	M 0.37		
JUL	1 1357	0	0	0	1	1	0	0	0	0	0	0	0	0	0	M 0.16		
JUL	1 14 0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	M 0.17		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
JUL 1 1333 TO JUL 1 1421 5.6 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM			
JUL	1	1451	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M			
JUL	1	1454	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M			
JUL	1	1457	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M			
JUL	1	15 0	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M			
JUL	1	15 3	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M			
JUL	1	15 6	BOOM MAST	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0.19 M			
JUL	1	15 9	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.31 M			
JUL	1	1512	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.27 M			
JUL	1	1515	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.21 M			
JUL	1	1518	BOOM MAST	0	0	0	0	1	0	0	1	2	0	0	0	0	0	0	0.55 M			
JUL	1	1521	BOOM MAST	0	0	0	0	0	0	0	0	0	4	0	2	0	0	0	1.24 M			
JUL	1	1524	BOOM MAST	0	0	0	0	0	0	0	0	0	0	2	2	7	2	0	2.62 M			
JUL	1	1527	BOOM MAST	0	0	0	0	0	0	0	0	0	0	2	7	2	0	0	2.11 M			
JUL	1	1530	BOOM MAST	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0.73 M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)	SENSOR	<1.0 0.2															PROJECT: GATE					YEAR: 1974		TOTAL AMOUNTS MM	
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0									
JUL 1 1533	BOOM MAST	0	0	0	0	0	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	1.03	M
JUL 1 1536	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36	M
JUL 1 1539	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09	M
JUL 1 1542	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09	M
JUL 1 1545	BOOM MAST	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20	M
JUL 1 1548	BOOM MAST	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.24	M
JUL 1 1551	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12	M
JUL 1 1554	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09	M
JUL 1 1557	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M
JUL 1 16 0	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M
JUL 1 16 3	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M
JUL 1 16 6	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M
JUL 1 16 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M
JUL 1 1612	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	>			
JUL	1 1615	ROOM MAST	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0			0.16
JUL	1 1618	ROOM MAST	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0			0.48

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	ROOM	MAST
	JUL 1 1451 TO	JUL 1 17 0	11.8 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0	TOTAL AMOUNTS MM				
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0					
JUL	2	130	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
JUL	2	133	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
JUL	2	136	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
JUL	2	139	BOOM MAST	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0.35 M				
JUL	2	142	BOOM MAST	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0.43 M				
JUL	2	145	BOOM MAST	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0.39 M				
JUL	2	148	BOOM MAST	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0.78 M				
JUL	2	151	BOOM MAST	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0.48 M				
JUL	2	154	BOOM MAST	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.23 M				
JUL	2	157	BOOM MAST	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.30 M				
JUL	2	2 0	BOOM MAST	0	0	0	0	0	0	0	1	0	2	1	0	0	0	0.84 M				
JUL	2	2 3	BOOM MAST	0	0	0	0	0	0	0	0	0	0	5	3	0	0	1.59 M				
JUL	2	2 6	BOOM MAST	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0.58 M				
JUL	2	2 9	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.24 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR		OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL AMOUNTS MM	
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0		
JUL	2 212	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16	M
	MAST																	
JUL	2 215	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.11	M
	MAST																	
JUL	2 218	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	M
	MAST																	
JUL	2 221	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	M
	MAST																	
JUL	2 224	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0.28	M
	MAST																	
JUL	2 227	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0.48	M
	MAST																	
JUL	2 230	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0.84	M
	MAST																	
JUL	2 233	0	0	0	0	0	0	0	0	0	0	2	7	2	0	0	2.04	M
	MAST																	
JUL	2 236	0	0	0	0	0	0	0	0	1	1	4	1	0	0	0	1.48	M
	MAST																	
JUL	2 239	0	0	0	0	0	0	0	0	1	1	2	2	0	0	0	1.20	M
	MAST																	
JUL	2 242	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.18	M
	MAST																	
JUL	2 245	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.17	M
	MAST																	
JUL	2 248	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.45	M
	MAST																	
JUL	2 251	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0.90	M
	MAST																	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 5.1	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
JUL	2	254	BOOM MAST	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.55 M
JUL	2	257	BOOM MAST	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0.29 M
JUL	2	30	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.19 M
JUL	2	33	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.14 M
JUL	2	36	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
JUL	2	39	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	2	312	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	2	315	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	2	318	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2	321	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2	324	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2	327	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2	330	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2	333	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
JUL	2	336	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2	339	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2	342	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2	345	BOOM MAST	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0.42 M
JUL	2	348	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	2	351	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	2	354	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	2	357	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	2	40	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	2	43	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	2	46	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
JUL	2	49	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
JUL	2	412	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	2	415	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
JUL	2	418	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.13 M
JUL	2	421	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M
JUL	2	424	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.18 M
JUL	2	427	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	2	430	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.08 M
JUL	2	433	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	2	436	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	2	439	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	2	442	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	2	445	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	2	448	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	2	451	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	2	454	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	2	457	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
JUL	2 5 0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 5 3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 5 6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 5 9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 5 12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 5 15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 5 18	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 5 21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 5 24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 5 27	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 5 30	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD JUL 2 130 TO JUL 2 630 18.6 MM MAST

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>				
JUL	2	19 0	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.14	M		
JUL	2	19 3	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.12	M		
JUL	2	19 6	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11	M		
JUL	2	19 9	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11	M		
JUL	2	19 12	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11	M		
JUL	2	19 15	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11	M		
JUL	2	19 18	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11	M		
JUL	2	19 21	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10	M		
JUL	2	19 24	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11	M		
JUL	2	19 27	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.13	M		
JUL	2	19 30	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.13	M		
JUL	2	19 33	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.13	M		
JUL	2	19 36	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.18	M		
JUL	2	19 39	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.15	M		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
JUL	2	1942	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	1945	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	1948	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	1951	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14 M
JUL	2	1954	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14 M
JUL	2	1957	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	20 0	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M
JUL	2	20 3	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	20 6	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.15 M
JUL	2	20 9	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	2	2012	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M
JUL	2	2015	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	2	2018	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	2	2021	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		
JUL	2	2024	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11 M
JUL	2	2027	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
JUL	2	2030	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
JUL	2	2033	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
JUL	2	2036	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
JUL	2	2039	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.13 M
JUL	2	2042	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.14 M
JUL	2	2045	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.15 M
JUL	2	2048	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	2	2051	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	2	2054	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	2	2057	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.13 M
JUL	2	21 0	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.15 M
JUL	2	21 3	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.20 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
JUL	2	21 6	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.22 M
JUL	2	21 9	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.25 M
JUL	2	2112	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.25 M
JUL	2	2115	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.24 M
JUL	2	2118	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.21 M
JUL	2	2121	BOOM MAST	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0.23 M
JUL	2	2124	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.24 M
JUL	2	2127	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.25 M
JUL	2	2130	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.21 M
JUL	2	2133	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M
JUL	2	2136	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.22 M
JUL	2	2139	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.22 M
JUL	2	2142	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.19 M
JUL	2	2145	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.17 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0						
JUL	2	2148	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M				
JUL	2	2151	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15 M				
JUL	2	2154	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M				
JUL	2	2157	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M				
JUL	2	22 0	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M				
JUL	2	22 3	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M				
JUL	2	22 6	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M				
JUL	2	22 9	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.09 M				
JUL	2	2212	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M				
JUL	2	2215	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M				
JUL	2	2218	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M				
JUL	2	2221	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M				
JUL	2	2224	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M				
JUL	2	2227	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		
JUL	2	2230	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	2	2233	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	2	2236	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	2	2239	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
JUL	2	2242	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.14 M
JUL	2	2245	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.21 M
JUL	2	2248	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.17 M
JUL	2	2251	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.15 M
JUL	2	2254	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10 M
JUL	2	2257	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	2	23 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	2	23 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	2	23 6	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	2	23 9	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0												>				TOTAL AMOUNTS MM
				0.2	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	
JUL	2	2312	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	2	2315	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13 M
JUL	2	2318	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	2321	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	2324	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	2327	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.15 M
JUL	2	2330	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	2333	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.21 M
JUL	2	2336	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	2339	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M
JUL	2	2342	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M
JUL	2	2345	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M
JUL	2	2348	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	2	2351	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
JUL	2	2354	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12
JUL	2	2357	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13
JUL	3	0 0	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.14
JUL	3	0 3	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18
JUL	3	0 6	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16
JUL	3	0 9	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.13
JUL	3	0 12	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13
JUL	3	0 15	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.15
JUL	3	0 18	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14
JUL	3	0 21	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15
JUL	3	0 24	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.15
JUL	3	0 27	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16
JUL	3	0 30	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.17
JUL	3	0 33	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MW/4R															PROJECT: GATE		YEAR: 1974												
MONTH	DAY	TIME(Z)	SENSOR	<1.0		<1.5		<2.1		<3.0		<4.3		<5.1		<8.7		<12.4		<18.0		<25.0		<36.0		<51.0		<73.0		>105.0		TOTAL AMOUNTS MW
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0													
JUL	3	036	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.14 M
JUL	3	039	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13 M
JUL	3	042	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11 M
JUL	3	045	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11 M
JUL	3	048	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	3	051	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	3	054	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	3	057	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
JUL	3	1 0	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
JUL	3	1 3	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
JUL	3	1 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	3	1 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	3	1 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	3	1 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR																TOTAL AMOUNTS MM
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	
JUL	3	118	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	3	121	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	124	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	127	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	130	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	133	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	136	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	139	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	142	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	145	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	148	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	151	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	3	154	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	3	157	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM			
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0		
JUL	3	2 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
JUL	3	2 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0											>					TOTAL AMOUNTS MM
				0.2	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	
JUL	3	242	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	3	457	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	3	50	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	3	53	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	3	56	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	3	59	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	3	512	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	3	515	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	3	518	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	3	521	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	3	524	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
JUL	3	527	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	3	530	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	3	533	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)			SENSOR	<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 0.2															<1.0 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AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	TOTAL AMOUNTS MM
JUL	3	518	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	3	621	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	3	624	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	3	627	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
JUL	3	630	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
JUL	3	633	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD
JUL 2 19 0 TO JUL 3 730 19.4 MM MAST

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
JUL	4 1351	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	4 1354	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	4 1357	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	4 14 0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	4 14 3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	4 14 6	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0.22 M
JUL	4 14 9	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	1.34 M
JUL	4 1412	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0.94 M
JUL	4 1415	0	0	0	0	0	0	0	1	1	0	1	1	1	0	0	1.10 M
JUL	4 1418	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13 M
JUL	4 1421	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.08 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUL 4 1351 TO JUL 4 15 0	4 15 0	4.0 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR		<1.0															>										TOTAL AMOUNTS MM
		0.2	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0											
JUL	5 17 0	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0							0.13 M			
JUL	5 17 3	BOOM MAST	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0							0.54 M			
JUL	5 17 6	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	3	6	0	0							1.89 M			
JUL	5 17 9	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	4	8	3	0							2.95 M			
JUL	5 17 12	BOOM MAST	0	0	0	0	0	0	0	0	0	1	2	4	2	0	0							1.87 M			
JUL	5 17 15	BOOM MAST	0	0	0	0	0	0	0	0	0	2	5	0	0	0	0							1.29 M			
JUL	5 17 18	BOOM MAST	0	0	0	0	0	0	1	2	0	0	0	0	1	1	0							0.93 M			
JUL	5 17 21	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0							0.22 M			
JUL	5 17 24	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0							0.07 M			
JUL	5 17 27	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0							0.07 M			
JUL	5 17 30	BOOM MAST	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0							0.31 M			
JUL	5 17 33	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0							0.18 M			
JUL	5 17 36	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0							0.11 M			
JUL	5 17 39	BOOM MAST	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0							0.24 M			

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
JUL 5 17 0 TO JUL 5 18 0 11.0 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
		0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
JUL 7 357	BOOM MAST	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0.34 M
JUL 7 4 0	BOOM MAST	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0.38 M
JUL 7 4 3	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.21 M
JUL 7 4 6	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M
JUL 7 4 9	BOOM MAST	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0.33 M
JUL 7 4 12	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.29 M
JUL 7 4 15	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.07 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
JUL 7 357 TO JUL 7 430 1.8 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR																TOTAL AMOUNTS MM
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
JUL	7	1915	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	7	1918	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	7	1921	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	7	1924	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	7	1927	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	7	1930	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	7	1933	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	7	1936	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	7	1939	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	7	1942	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	7	1945	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	7	1948	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	7	1951	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
JUL	7	1954	ROOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR															> 105.0	> 105.0		
			<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0				
JUL	7 1957	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11 M
JUL	7 20 0	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	7 20 3	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.21 M
JUL	7 20 6	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.24 M
JUL	7 20 9	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.20 M
JUL	7 20 12	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.13 M
JUL	7 20 15	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	7 20 18	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	7 20 21	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11 M
JUL	7 20 24	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10 M
JUL	7 20 27	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11 M
JUL	7 20 30	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	7 20 33	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	7 20 36	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0																>				TOTAL AMOUNTS MM
				0.2	1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	105.0					
JUL	7	2039	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09	M	
JUL	7	2042	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09	M
JUL	7	2045	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD JUL 7 18 0 TO JUL 7 2112 300M MAST 2.8 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
JUL	8	1745	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13 M
JUL	8	1748	ROOM MAST	0	0	0	1	0	0	0	0	0	0	1	2	0	2	0	0.99 M
JUL	8	1751	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	1	3	10	12	5.20 M
JUL	8	1754	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	3	8	15	5.27 M
JUL	8	1757	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	2	12	15	5.67 M
JUL	8	18 0	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	1	6	8	4	3.92 M
JUL	8	18 3	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	1	15	11	5.41 M
JUL	8	18 6	ROOM MAST	0	0	0	0	0	0	0	0	0	0	1	5	2	5	3	3.15 M
JUL	8	18 9	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	1	11	3	2	3.45 M
JUL	8	1812	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	15	1	1	3.38 M
JUL	8	1815	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	5	7	1	2	3.00 M
JUL	8	1818	ROOM MAST	0	0	0	0	0	0	0	0	0	1	3	4	2	0	1	2.12 M
JUL	8	1821	ROOM MAST	0	0	0	0	0	0	0	0	0	1	2	6	0	0	0	1.76 M
JUL	8	1824	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	9	6	1	3.24 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		
JUL	8	1827	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	4	16	0		4.08 M
JUL	8	1830	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	12	5	1		3.62 M
JUL	8	1833	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	3	10	1	0		2.80 M
JUL	8	1836	BOOM MAST	0	0	0	0	0	0	0	0	0	0	1	9	0	0	1		2.15 M
JUL	8	1839	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	9	2	0	1		2.35 M
JUL	8	1842	BOOM MAST	0	0	0	0	0	0	0	0	0	0	1	9	1	0	1		2.41 M
JUL	8	1845	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	8	4	0	0		2.35 M
JUL	8	1848	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	1	12	0	0		2.76 M
JUL	8	1851	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	1	11	3	3		3.46 M
JUL	8	1854	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	4	8	0	3		3.10 M
JUL	8	1857	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	5	10	9		4.83 M
JUL	8	19 0	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	6	14	1		4.12 M
JUL	8	19 3	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	9	20		5.85 M
JUL	8	19 6	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	1	7	22		6.03 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)			SENSOR	<1.0											<3.0											<4.3											<5.1											<8.7											<12.4											<18.0											<25.0											<36.0											<51.0											<73.0											>105.0											TOTAL AMOUNTS MM
				0.2	1.0	<1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	>105.0																																																																																																																					
JUL	8	19 9	BOOM MAST	0	0	0	0	0	0	0	0	0	1	1	2	3	1	0	0	1.47 M																																																																																																																				
JUL	8	1912	BOOM MAST	0	0	0	0	0	0	0	0	2	0	4	1	0	0	0	0	1.37 M																																																																																																																				
JUL	8	1915	BOOM MAST	0	0	0	0	0	0	0	0	0	2	1	4	0	0	1	1	1.59 M																																																																																																																				
JUL	8	1918	BOOM MAST	0	0	0	0	0	0	0	0	2	3	1	2	2	0	0	0	1.53 M																																																																																																																				
JUL	8	1921	BOOM MAST	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0.72 M																																																																																																																				
JUL	8	1924	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0.67 M																																																																																																																				
JUL	8	1927	BOOM MAST	0	0	0	0	0	0	0	0	1	4	0	0	0	0	1	1	1.11 M																																																																																																																				
JUL	8	1930	BOOM MAST	0	0	0	0	0	0	0	0	0	0	2	2	6	1	0	0	2.33 M																																																																																																																				
JUL	8	1933	BOOM MAST	0	0	0	0	0	0	0	0	0	1	2	5	2	1	1	1	2.36 M																																																																																																																				
JUL	8	1936	BOOM MAST	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	1.08 M																																																																																																																				
JUL	8	1939	BOOM MAST	0	0	0	0	0	0	0	2	2	0	0	0	0	0	1	1	0.83 M																																																																																																																				
JUL	8	1942	BOOM MAST	0	0	0	0	0	0	0	0	2	3	2	0	1	0	0	0	0.99 M																																																																																																																				
JUL	8	1945	BOOM MAST	0	0	0	0	0	0	0	0	0	3	2	1	1	0	0	0	1.47 M																																																																																																																				
JUL	8	1948	BOOM MAST	0	0	0	0	0	0	0	0	0	3	6	2	0	0	0	0	1.63 M																																																																																																																				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		SENSOR		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0							
JUL	8 1951	800M MAST		0	0	0	0	0	0	0	0	0	4	2	0	0	0	0					1.15 M	
JUL	8 1954	800M MAST		0	0	0	0	0	0	0	0	0	2	3	2	0	0	0					1.43 M	
JUL	8 1957	800M MAST		0	0	0	0	0	0	0	0	1	5	0	0	0	0	0					1.11 M	
JUL	8 20 0	800M MAST		0	0	0	0	0	0	0	1	1	1	0	0	0	0	0					0.74 M	
JUL	8 20 3	800M MAST		0	0	0	0	0	0	0	2	0	1	0	0	0	0	0					0.60 M	
JUL	8 20 6	800M MAST		0	0	0	0	0	1	0	0	2	0	0	0	0	0	0					0.58 M	
JUL	8 20 9	800M MAST		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0					0.24 M	
JUL	8 2012	800M MAST		0	0	0	0	0	0	0	2	1	0	0	0	0	0	0					0.46 M	
JUL	8 2015	800M MAST		0	0	0	0	0	0	1	0	0	0	1	0	0	0	0					0.50 M	
JUL	8 2018	800M MAST		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0					0.20 M	
JUL	8 2021	800M MAST		0	0	0	1	0	1	0	0	0	0	0	0	0	0	0					0.14 M	
JUL	8 2024	800M MAST		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0					0.33 M	
JUL	8 2027	800M MAST		0	0	0	0	0	0	0	1	0	3	0	0	0	0	1					0.99 M	
JUL	8 2030	800M MAST		0	0	0	0	0	0	0	2	2	0	0	0	0	0	0					0.64 M	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		SENSOR		<1.0 0.2																										>												TOTAL AMOUNTS MM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)			SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM
JUL	8	2115	ROOM MAST	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0.53 M
JUL	8	2118	ROOM MAST	0	0	0	0	0	0	1	1	1	3	0	0	1	0	0	0.70 M
JUL	8	2121	ROOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.41 M
JUL	8	2124	ROOM MAST	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0.21 M
JUL	8	2127	ROOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
JUL	8	2130	ROOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
JUL	8	2133	ROOM MAST	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0.22 M
JUL	8	2136	ROOM MAST	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0.18 M
JUL	8	2139	ROOM MAST	0	0	0	0	1	0	0	0	0	3	0	0	0	0	1	0.36 M
JUL	8	2142	ROOM MAST	0	0	0	1	1	0	0	0	0	3	0	0	0	0	0	0.13 M
JUL	8	2145	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	8	2148	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	8	2151	ROOM MAST	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0.11 M
JUL	8	2154	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
JUL	8	2157	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M
JUL	8	22 0	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10 M
JUL	8	22 3	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
JUL	8	22 6	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
JUL	8	22 9	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
JUL	8	2212	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
JUL	8	2215	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
JUL	8	2218	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	8	2221	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
JUL	8	2224	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.17 M
JUL	8	2227	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.15 M
JUL	8	2230	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15 M
JUL	8	2233	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.12 M
JUL	8	2236	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		PROJECT: GATE YEAR: 1974													
		OCCURRENCE OF RATES BY CLASS IN MM/HR													
MONTH DAY TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	TOTAL
		0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	AMOUNTS MM
JUL 12 1512	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0.09 M
JUL 12 1515	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0.09 M
JUL 12 1518	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0.10 M
JUL 12 1521	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0.10 M
JUL 12 1524	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0.02 M

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUL 12 1512 TO	JUL 12 1530	0.4 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR																TOTAL AMOUNTS MM
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.1 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0			
JUL	13	342	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.17 M	
JUL	13	345	BOOM MAST	0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0.64 M	
JUL	13	348	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.17 M	
JUL	13	351	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.01 M	

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
JUL 13 342 TO JUL 13 4 0 1.0 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0	TOTAL AMOUNTS MM
			0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	
JUL	13 2345	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M
JUL	13 2348	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M
JUL	13 2351	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0.30 M
JUL	13 2354	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M
JUL	13 2357	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.17 M
JUL	14 0 0	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.16 M
JUL	14 0 3	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.16 M
JUL	14 0 6	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.14 M
JUL	14 0 9	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.11 M
JUL	14 012	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.13 M
JUL	14 015	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.17 M
JUL	14 018	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.19 M
JUL	14 021	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M
JUL	14 024	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.08 M

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD JUL 13 2345 TO JUL 14 1 3 2.0 MM MAST M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE	YEAR: 1974
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM	
JUL	14 1333	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	14 1336	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	14 1339	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	14 1342	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	14 1345	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	14 1348	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	14 1351	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	14 1354	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	14 1357	ROOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M
JUL	14 14 0	ROOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08	M
JUL	14 14 3	ROOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08	M
JUL	14 14 6	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M
JUL	14 14 9	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M
JUL	14 1412	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

SHIP: RESEARCHER				OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	M					
JUL	14	1415	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M				
JUL	14	1418	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
JUL	14	1421	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
JUL	14	1424	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
JUL	14	1427	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
JUL	14	1430	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
JUL	14	1433	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD		MONTH	DAY	TIME	MONTH	DAY	TIME	BOOM	MAST
		JUL	14	1333	TO	JUL	14	1451	MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR												PROJECT: GATE		YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
JUL	15 1136	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M
JUL	15 1139	BOOM MAST	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0.29 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
JUL 15 1136 TO JUL 15 1142 0.4 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR											PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	M	
JUL	15	1457	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M	
JUL	15	15 0	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M	
JUL	15	15 3	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M	
JUL	15	15 6	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M	

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD		MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
JUL	15 1457 TO	JUL	15 1512	0.2 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	
JUL	29	5 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	29	5 42	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM
JUL	29 545	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 548	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 551	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 554	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 557	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 6 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 6 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 6 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 6 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 512	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 615	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 618	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 621	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	29 624	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUL 29 5 3	JUL 29 712	0.6 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM
AUG	3 1230	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.04
AUG	3 1233	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.05
AUG	3 1236	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.05
AUG	3 1239	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.05
AUG	3 1242	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.02
AUG	3 1245	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01
AUG	3 1248	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01
AUG	3 1251	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01
AUG	3 1254	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01
AUG	3 1257	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01
AUG	3 13 0	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01
AUG	3 13 3	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01
AUG	3 13 6	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01
AUG	3 13 9	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH DAY TIME(Z) SENSJR			<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	TOTAL AMOUNTS MM			
AUG	3 1312	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01			
AUG	3 1315	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01			
AUG	3 1318	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01			
AUG	3 1321	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01			
AUG	3 1324	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.01			
AUG	3 1457	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.03			
AUG	3 15 0	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.00 0.11			
AUG	3 15 3	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 1	0 0	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0.30 0.33			
AUG	3 15 6	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 2	0 0	0 1	0 0	0 0	0 1	0 0	0.86 0.62			
AUG	3 15 9	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	0 2	0 0	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0.56 0.71			
AUG	3 1512	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	0 1	0 0	0 2	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0.40 0.84			
AUG	3 1515	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0.64 0.35			
AUG	3 1518	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 2	0 0	0.69 0.56			
AUG	3 1521	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.32			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE	YEAR: 1974
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
AUG	3	1524	BOOM MAST	0 0	0 0	0 0	1 0	0 0	0 0	0 1	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0.45 0.30
AUG	3	1527	BOOM MAST	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.13
AUG	3	1530	BOOM MAST	0 0	0 0	0 0	1 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0.27 0.15
AUG	3	1533	BOOM MAST	0 0	0 0	0 0	1 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0.14 0.56
AUG	3	1536	BOOM MAST	0 0	0 0	0 0	1 0	0 0	0 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0.49 0.15
AUG	3	1539	BOOM MAST	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.31 0.30
AUG	3	1542	BOOM MAST	1 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.15
AUG	3	1545	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0
AUG	3	1548	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0
AUG	3	1551	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0
AUG	3	1554	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0
AUG	3	1557	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0
AUG	3	16 0	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0
AUG	3	16 3	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM		
AUG	3	16 6	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0		
AUG	3	16 9	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0		
AUG	3	16 12	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0		
AUG	3	16 15	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0		
AUG	3	16 18	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.0		

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 3 1124 TO AUG 3 1640 5.8 MM 6.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)		SENSOR															TOTAL AMOUNTS MM	
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0			
AUG	5 330	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M		
		BOOM																
		MAST																
AUG	5 333	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M		
		BOOM																
		MAST																
AUG	5 336	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M		
		BOOM																
		MAST																
AUG	5 339	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M		
		BOOM																
		MAST																
AUG	5 342	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0.28 M		
		BOOM																
		MAST																
AUG	5 345	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.26 M		
		BOOM																
		MAST																
AUG	5 348	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.27 M		
		BOOM																
		MAST																
AUG	5 351	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.08 M		
		BOOM																
		MAST																
AUG	5 354	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.08 M		
		BOOM																
		MAST																
AUG	5 357	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.07 M		
		BOOM																
		MAST																
AUG	5 4 0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M		
		BOOM																
		MAST																
AUG	5 4 3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M		
		BOOM																
		MAST																
AUG	5 4 6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M		
		BOOM																
		MAST																
AUG	5 4 9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
		BOOM																
		MAST																

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 5 330 TO AUG 5 50 1.4 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0					
AUG	5	1030	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M			
AUG	5	1033	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M			
AUG	5	1036	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M			
AUG	5	1039	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M			
AUG	5	1042	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M			
AUG	5	1045	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M			
AUG	5	1048	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10 M			
AUG	5	1051	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M			
AUG	5	1054	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M			
AUG	5	1057	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M			
AUG	5	11 0	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M			
AUG	5	11 3	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M			
AUG	5	11 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
AUG	5	11 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
AUG	5 1112	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG	5 1115	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG	5 1118	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG	5 1121	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG	5 1124	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG	5 1127	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
AUG	5 1130	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
AUG	5 1133	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
AUG	5 1136	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 5 1030 TO AUG 5 1145 1.0 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	TOTAL AMOUNTS MM
MONTH	OAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0			
AUG	7 9 3	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0			0.20 M
AUG	7 9 6	BOOM MAST	0	0	0	0	1	0	0	1	1	3	1	0	0	0	0			1.20 M
AUG	7 9 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			0.05 M
AUG	7 9 12	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			0.05 M
AUG	7 9 15	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			0.05 M
AUG	7 9 18	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			0.05 M
AUG	7 9 21	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			0.05 M
AUG	7 9 24	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			0.06 M
AUG	7 9 27	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			0.06 M
AUG	7 9 30	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			0.06 M
AUG	7 9 33	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			0.07 M
AUG	7 9 36	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			0.07 M
AUG	7 9 39	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0			0.20 M
AUG	7 9 42	BOOM MAST	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0			0.21 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		PROJECT: GATE														YEAR: 1974	
		OCCURRENCE OF RATES BY CLASS IN MM/HR															
MONTH DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
AUG 7 945	BOOM MAST	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.50 M
AUG 7 948	BOOM MAST	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0.76 M
AUG 7 951	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.13 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD		MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
AUG	7 9 3	TO	AUG	7 10 3	3.8 MM
					M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNT'S MM
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0						
AUG	9	16 3	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.15	M			
AUG	9	16 6	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15	M			
AUG	9	16 9	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.17	M			
AUG	9	16 12	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.17	M			
AUG	9	16 15	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11	M			
AUG	9	16 18	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.11	M			
AUG	9	16 21	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10	M			
AUG	9	16 24	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.13	M			
AUG	9	16 27	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15	M			
AUG	9	16 30	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11	M			
AUG	9	16 33	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.11	M			
AUG	9	16 36	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10	M			
AUG	9	16 39	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.13	M			
AUG	9	16 42	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.17	M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		PROJECT: GATE															YEAR: 1974	
		OCCURRENCE OF RATES BY CLASS IN MM/HR																
MONTH	DAY TIME(Z)	SENSOR																TOTAL AMOUNTS MM
			<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
AUG	9 1645	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.24 M
AUG	9 1648	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.22 M
AUG	9 1651	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.19 M
AUG	9 1654	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.16 M
AUG	9 1657	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14 M
AUG	9 17 0	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14 M
AUG	9 17 3	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15 M
AUG	9 17 6	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
AUG	9 17 9	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
AUG	9 1712	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.15 M
AUG	9 1715	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.21 M
AUG	9 1718	BOOM MAST	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0.22 M
AUG	9 1721	BOOM MAST	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.33 M
AUG	9 1724	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.30 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	
AUG	9	1727	BOOM MAST	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0.46 M
AUG	9	1730	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M
AUG	9	1733	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.11 M
AUG	9	1736	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09 M
AUG	9	1739	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09 M
AUG	9	1742	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.18 M
AUG	9	1745	BOOM MAST	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0.34 M
AUG	9	1748	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.14 M
AUG	9	1751	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
AUG	9	1754	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
AUG	9	1757	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
AUG	9	18 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
AUG	9	18 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
AUG	9	18 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)			SENSOR	<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 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BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	>					
AUG	9	1851	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
AUG	9	1854	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
AUG	9	1857	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
AUG	9	19 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
AUG	9	19 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
AUG	9	19 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
AUG	9	19 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
AUG	9	1912	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 9 16 3 TO AUG 9 1930 7.6 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR			<1.0 0.2															<1.5 1.0															<2.1 1.5															<3.0 2.1															<4.3 3.0															<5.1 4.3															<6.1 6.1															<8.7 8.7															<12.4 12.4															<18.0 18.0															<25.0 25.0															<36.0 36.0															<51.0 51.0															<73.0 73.0															<105.0 105.0															>															TOTAL AMOUNTS MM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
AUG	12	16 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM
AUG 12 1645	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG 12 1648	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG 12 1651	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG 12 1654	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG 12 1657	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	300M	MAST
	AUG 12 16 3	AUG 12 17 6	M	0.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM	
AUG	13	345	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.13	
AUG	13	348	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.09	
AUG	13	351	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05	
AUG	13	354	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05	
AUG	13	357	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05	
AUG	13	4 0	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.13	
AUG	13	4 3	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.17	
AUG	13	4 6	BOOM MAST	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0.20	
AUG	13	4 9	BOOM MAST	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0.52	

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 13 345 TO	AUG 13 412	M	1.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974		TOTAL AMOUNT'S MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0				
AUG	17	1754	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0.05 M	
AUG	17	1757	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0.05 M	
AUG	17	18 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0.05 M	
AUG	17	18 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0.05 M	
AUG	17	18 6	BOOM MAST	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0		0.24 M	
AUG	17	18 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		0.06 M	
AUG	17	1812	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		0.06 M	
AUG	17	1815	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		0.06 M	
AUG	17	1818	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		0.06 M	
AUG	17	1821	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		0.06 M	
AUG	17	1824	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		0.06 M	
AUG	17	1827	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		0.01 M	

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 17 1754 TO AUG 17 1912 0.8 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0															>										TOTAL AMOUNTS MM
				0.2	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	105.0										
AUG	30	745	BOOM MAST	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0.71						
AUG	30	748	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	0	0	1.07						
AUG	30	751	BOOM MAST	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	1.49						
AUG	30	754	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1.12						
AUG	30	757	BOOM MAST	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1.13						
AUG	30	8 0	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.70						
AUG	30	8 3	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.63						
AUG	30	8 6	BOOM MAST	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.53						
AUG	30	8 9	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.43						
AUG	30	812	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.41						
AUG	30	815	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.42						
AUG	30	818	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.33						
AUG	30	821	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.19						
AUG	30	824	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.18						
AUG	30	827	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10						
AUG	30	830	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07						
AUG	30	833	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07						
AUG	30	836	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06						
AUG	30	839	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07						
AUG	30	842	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07						
AUG	30	845	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06						
AUG	30	848	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13						
AUG	30	851	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07						
AUG	30	854	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13						
AUG	30	857	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08						
AUG	30	860	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.14						
AUG	30	863	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08						

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM			
AUG	30	827	ROOM MAST	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.08			
AUG	30	830	ROOM MAST	0 0	1 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.08			
AUG	30	833	ROOM MAST	0 1	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.06			
AUG	30	836	ROOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.05			
AUG	30	839	ROOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.05			
AUG	30	842	ROOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.05			
AUG	30	845	ROOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.04			
AUG	30	848	ROOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.03			
AUG	30	851	ROOM MAST	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.03			
AUG	30	854	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.03			
AUG	30	857	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.03			
AUG	30	9 0	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.03			
AUG	30	9 3	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.02			

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 30 745 TO	AUG 30 10 0	6.6	MM	6.4

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
AUG	31 1854	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.03
AUG	31 1857	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.03
AUG	31 19 0	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.03
AUG	31 19 3	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.03
AUG	31 19 6	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.03
AUG	31 19 9	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.05
AUG	31 1912	BOOM MAST	0 0	1 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.15
AUG	31 1915	BOOM MAST	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.03

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD		MONTH	DAY	TIME	MONTH	DAY	TIME	BOOM	MAST
		AUG	31	1854 TO	AUG	31	1930	0.6 MM	0.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
SEP	1	433	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03
SEP	1	436	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03
SEP	1	439	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03
SEP	1	442	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03
SEP	1	445	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03
SEP	1	448	BOOM MAST	1 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.03
SEP	1	451	BOOM MAST	0 1	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.12 0.07
SEP	1	454	BOOM MAST	0 0	0 1	0 0	1 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.07
SEP	1	457	BOOM MAST	0 0	0 1	0 1	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.27 0.09
SEP	1	5 0	BOOM MAST	0 0	0 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.13
SEP	1	5 3	BOOM MAST	0 0	1 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.09
SEP	1	5 6	BOOM MAST	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.07
SEP	1	5 9	BOOM MAST	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.07
SEP	1	512	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.03

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		SENSOR		<1.0 0.2															> 105.0															TOTAL AMOUNTS MM
				<1.0 0.2		<1.5 1.0		<2.1 1.5		<3.0 2.1		<4.3 3.0		<6.1 4.3		<8.7 6.1		<12.4 8.7		<18.0 12.4		<25.0 18.0		<36.0 25.0		<51.0 36.0		<73.0 51.0		> 105.0				
SEP	1	515	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20	0.03	
SEP	1	518	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.03
SEP	1	521	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.03
SEP	1	524	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	0.03
SEP	1	527	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.03
SEP	1	530	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.03
SEP	1	533	ROOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.00

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD SEP 1 433 TO SEP 1 548 1.6 MM MAST 1.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974	
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	3 1518	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	3 1521	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	3 1524	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	3 1527	BOOM MAST	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0.02 M
SEP	3 1530	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	3 1533	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	3 1536	BOOM MAST	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0.02 M
SEP	3 1539	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	3 1542	BOOM MAST	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0.02 M
SEP	3 1545	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	3 1548	BOOM MAST	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0.08 M
SEP	3 1551	BOOM MAST	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0.08 M
SEP	3 1554	BOOM MAST	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0.08 M
SEP	3 1557	BOOM MAST	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0.08 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR		<1.0 0.2															> 105.0					TOTAL AMOUNTS MM	
		<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0									
SEP	3 16 0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0.12	M					
		BOOM																					
		MAST																					
SEP	3 16 3	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.45	M					
		BOOM																					
		MAST																					
SEP	3 16 6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.27	M					
		BOOM																					
		MAST																					
SEP	3 16 9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11	M					
		BOOM																					
		MAST																					
SEP	3 16 12	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09	M					
		BOOM																					
		MAST																					
SEP	3 16 15	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M					
		BOOM																					
		MAST																					

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD SEP 3 1518 TO SEP 3 1630 BOOM 1.6 MM MAST M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0						
SEP	3	23 0	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03				
SEP	3	23 3	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03				
SEP	3	23 6	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03				
SEP	3	23 9	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03				
SEP	3	23 12	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03				
SEP	3	23 15	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.03				
SEP	3	23 18	BOOM MAST	0 1	0 0	0 1	0 0	0 0	1 0	0 0	0 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0.58 0.09				
SEP	3	23 21	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 0	1 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0.38 0.09				
SEP	3	23 24	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 0	0 1	0 2	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0.88 0.66				
SEP	3	23 27	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 2	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0.48 0.36				
SEP	3	23 30	BOOM MAST	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.31 0.30				
SEP	3	23 33	BOOM MAST	0 0	0 0	0 0	1 0	0 1	1 0	0 0	0 1	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0.51 0.32				
SEP	3	23 36	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0.49 0.36				
SEP	3	23 39	BOOM MAST	0 1	0 0	0 0	0 0	1 0	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.34 0.24				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH DAY TIME(Z)			SENSORS	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM						
SEP	3	2342	BOOM MAST	1 1	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.05						
SEP	3	2345	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.05						
SEP	3	2348	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.05						
SEP	3	2351	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.05						
SEP	3	2354	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04						
SEP	3	2357	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04						
SEP	4	0 0	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04						
SEP	4	0 3	BOOM MAST	1 1	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.12 0.04						
SEP	4	0 6	BOOM MAST	0 1	0 0	1 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.04						
SEP	4	0 9	BOOM MAST	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.04						
SEP	4	0 12	BOOM MAST	1 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.04						
SEP	4	0 15	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04						
SEP	4	0 18	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04						
SEP	4	0 21	BOOM MAST	1 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04						

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0						
SEP	4	024	BOOM MAST	1 0	0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.09				
SEP	4	027	BOOM MAST	0 0	0 1	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.09				
SEP	4	030	BOOM MAST	0 0	0 1	0 1	0 0	1 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.25 0.23				
SEP	4	033	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.46 0.34				
SEP	4	036	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.40 0.30				
SEP	4	039	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 1	1 0	1 1	1 1	1 0	0 0	0 0	0 0	0 0	0.76 0.68				
SEP	4	042	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 0	2 0	4 5	1 0	0 0	0 0	0 0	1.45 1.30				
SEP	4	045	BOOM MAST	0 0	0 1	0 1	0 0	1 0	1 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.46 0.38				
SEP	4	048	BOOM MAST	0 0	0 1	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.09				
SEP	4	051	BOOM MAST	0 0	0 1	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.18 0.09				
SEP	4	054	BOOM MAST	0 0	0 1	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.10				
SEP	4	057	BOOM MAST	0 0	0 1	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.18 0.10				
SEP	4	1 0	BOOM MAST	0 0	0 1	0 1	0 0	1 0	0 1	0 1	1 1	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0.48 0.35				
SEP	4	1 3	BOOM MAST	0 0	0 1	0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.36 0.14				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER				OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0	TOTAL AMOUNTS MM					
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0					
SEP	4	16	BOOM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11				
			MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10				
SEP	4	19	BOOM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08				
			MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10				
SEP	4	112	BOOM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05				
			MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10				
SEP	4	115	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0				
			MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03				

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
SEP 3 23 0 TO SEP 4 242 11.0 MM 7.8 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 5.1	<8.7 12.4	<12.4 18.0	<18.0 25.0	<25.0 36.0	<36.0 51.0	<51.0 73.0	> 105.0	TOTAL AMOUNTS MM			
SEP	4	357	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02			
SEP	4	4 0	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02			
SEP	4	4 3	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02			
SEP	4	4 6	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02			
SEP	4	4 9	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02			
SEP	4	4 12	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02			
SEP	4	4 15	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02			
SEP	4	4 18	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02			
SEP	4	4 21	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02			
SEP	4	4 24	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.02			
SEP	4	4 27	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.02			
SEP	4	4 30	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.02			
SEP	4	4 33	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.01			
SEP	4	4 36	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.01			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	TOTAL AMOUNTS MM
SEP	4	615	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01
SEP	4	618	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.01
SEP	4	621	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.01
SEP	4	624	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.01
SEP	4	627	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.01
SEP	4	630	BOOM MAST	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04
SEP	4	633	BOOM MAST	1 0	0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.06
SEP	4	636	BOOM MAST	0 0	0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.20 0.06
SEP	4	639	BOOM MAST	0 0	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.22 0.09
SEP	4	642	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.13
SEP	4	645	BOOM MAST	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.17
SEP	4	648	BOOM MAST	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.18 0.14
SEP	4	651	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.12
SEP	4	654	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.12

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0 0.2 1.0 1.5 2.1 3.0 4.3 6.1 8.7 12.4 18.0 25.0 36.0 51.0 73.0 105.0 >															TOTAL AMOUNTS MM
		<1.0	0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	
SEP 4 557	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
SEP 4 7 0	BOOM MAST	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
SEP 4 7 3	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SEP 4 7 6	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SEP 4 7 9	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD SEP 4 357 TO SEP 4 745 BOOM 2.6 MM MAST 1.8 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>	TOTAL AMOUNTS MM						
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0					
SEP	4	16 0	BOOM MAST	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.05						
SEP	4	16 3	BOOM MAST	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.05						
SEP	4	16 6	BOOM MAST	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.05						
SEP	4	16 9	BOOM MAST	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.05						
SEP	4	16 12	BOOM MAST	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.11						
SEP	4	16 15	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.11						
SEP	4	16 18	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.13						
SEP	4	16 21	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.13						
SEP	4	16 24	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.13						
SEP	4	16 27	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.11						
SEP	4	16 30	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.11						
SEP	4	16 33	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.11						
SEP	4	16 36	BOOM MAST	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.10						
SEP	4	16 39	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.09						

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH DAY TIME (Z)		SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM							
SEP	4 1642	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.09							
SEP	4 1645	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.08							
SEP	4 1648	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.08							
SEP	4 1651	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.08							
SEP	4 1654	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.08							
SEP	4 1657	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.12 0.11							
SEP	4 17 0	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.13							
SEP	4 17 3	BOOM MAST	0 0	0 0	1 1	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.13							
SEP	4 17 6	BOOM MAST	0 0	0 0	1 1	1 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.15							
SEP	4 17 9	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.14							
SEP	4 1712	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.10							
SEP	4 1715	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.11							
SEP	4 1718	BOOM MAST	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.14							
SEP	4 1721	BOOM MAST	0 0	0 0	1 1	1 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.17							

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH DAY TIME(Z) SENSOR			<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM					
SEP	4	1724	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.17 0.17					
SEP	4	1727	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.15					
SEP	4	1730	BOOM MAST	0 0	0 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.18 0.13					
SEP	4	1733	BOOM MAST	0 0	0 0	1 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.08					
SEP	4	1736	BOOM MAST	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.08					
SEP	4	1739	BOOM MAST	0 1	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.06					
SEP	4	1742	BOOM MAST	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.04					
SEP	4	1745	BOOM MAST	1 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.04					
SEP	4	1748	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.04					
SEP	4	1751	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.04					
SEP	4	1754	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.04					
SEP	4	1757	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03					
SEP	4	18 0	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03					
SEP	4	18 3	BOOM MAST	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.03					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM					
SEP	4	18 6	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.03					
SEP	4	18 9	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.03					
SEP	4	18 12	BOOM MAST	0 1	1 0	0 0	0 0	0 0	1 0	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0.28 0.19					
SEP	4	18 15	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	1 0	0 0	0 0	0 2	0 4	0 0	0 0	0 0	1.08 1.04					
SEP	4	18 18	BOOM MAST	0 0	0 0	0 0	0 0	0 1	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.30 0.23					
SEP	4	18 21	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.28 0.20					
SEP	4	18 24	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.44 0.34					
SEP	4	18 27	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 1	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.56 0.48					
SEP	4	18 30	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 2	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0.63 0.45					
SEP	4	18 33	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 2	2 1	2 1	0 0	0 0	0 0	1 0	0 0	1.05 0.67					
SEP	4	18 36	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 4	6 2	0 0	0 0	0 0	0 0	1.44 1.20					
SEP	4	18 39	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 1	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0.74 0.55					
SEP	4	18 42	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 0	3 0	0 0	0 0	0 0	0 0	0 0	0 0	0.45 0.35					
SEP	4	18 45	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	1 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0.47 0.37					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0								
SEP	4	1848	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.35 0.29						
SEP	4	1851	BOOM MAST	0 0	0 0	0 0	0 0	0 0	2 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.41 0.30						
SEP	4	1854	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.37 0.26						
SEP	4	1857	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.33 0.23						
SEP	4	19 0	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.38 0.27						
SEP	4	19 3	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.50 0.39						
SEP	4	19 6	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.41 0.31						
SEP	4	19 9	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.40 0.27						
SEP	4	1912	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 1	1 2	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0.56 0.48						
SEP	4	1915	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 2	1 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.59 0.49						
SEP	4	1918	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 3	0 3	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.72 0.51						
SEP	4	1921	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 3	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0.80 0.56						
SEP	4	1924	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 2	3 0	3 0	0 0	0 0	0 0	0 0	0 0	0.95 0.76						
SEP	4	1927	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 2	0 4	1 0	1 0	0 0	0 0	0 0	0 0	1.03 0.85						

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR				<1.0																	>										TOTAL AMOUNTS MM
				0.2	1.0	<1.5	<2.1	<3.0	<4.3	<5.1	6.1	8.7	<12.4	<18.0	<25.0	<36.0	<51.0	73.0	<105.0	105.0											
SEP	4	1930	BOOM MAST	0	0	0	0	0	0	0	0	0	2	0	4	0	0	0	0	0	0	0	0.81 0.54								
SEP	4	1933	BOOM MAST	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	1.06 0.74								
SEP	4	1936	BOOM MAST	0	0	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0.77 0.57								
SEP	4	1939	BOOM MAST	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0.54 0.37								
SEP	4	1942	BOOM MAST	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0.53 0.40								
SEP	4	1945	BOOM MAST	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0.73 0.59								
SEP	4	1948	BOOM MAST	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.33 0.64								
SEP	4	1951	BOOM MAST	0	0	0	0	1	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0.21 0.77								
SEP	4	1954	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.46 0.37								
SEP	4	1957	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.35 0.30								
SEP	4	20 0	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.35 0.27								
SEP	4	20 3	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.26 0.23								
SEP	4	20 6	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.19 0.13								
SEP	4	20 9	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.17 0.15								

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974										
MONTH	DAY	TIME(Z)	SENSOR	<1.0		<1.5		<2.1		<3.0		<4.3		<5.1		<8.7		<12.4		<18.0		<25.0		<36.0		<51.0		<73.0		>105.0		TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0													
SEP	4	2012	BOOM MAST	0 0	0 0	0 0	0 0	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.18	
SEP	4	2015	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.27 0.24	
SEP	4	2018	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.32 0.27	
SEP	4	2021	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.27 0.23	
SEP	4	2024	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.21 0.18	
SEP	4	2027	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.18 0.15	
SEP	4	2030	BOOM MAST	0 0	0 0	0 0	0 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.17	
SEP	4	2033	BOOM MAST	0 0	0 0	0 0	0 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.23 0.18	
SEP	4	2036	BOOM MAST	0 0	0 0	0 0	0 0	0 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.22 0.20	
SEP	4	2039	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.25 0.24	
SEP	4	2042	BOOM MAST	0 0	0 0	0 0	0 0	0 0	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.29 0.24	
SEP	4	2045	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.26 0.22	
SEP	4	2048	BOOM MAST	0 0	0 0	0 0	0 0	0 0	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.26 0.23	
SEP	4	2051	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.21 0.19	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM			
SEP	4	2054	ROOM MAST	0 0	0 0	0 0	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.17 0.13			
SEP	4	2057	ROOM MAST	0 0	0 0	0 0	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.17 0.14			
SEP	4	21 0	ROOM MAST	0 0	0 0	0 0	1 1	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.23 0.19			
SEP	4	21 3	ROOM MAST	0 0	0 0	0 0	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.17			
SEP	4	21 6	ROOM MAST	0 0	0 0	0 0	1 1	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.24 0.18			
SEP	4	21 9	ROOM MAST	0 0	0 0	0 0	1 1	2 0	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.32 0.27			
SEP	4	2112	ROOM MAST	0 0	0 0	0 0	0 0	0 1	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.32 0.28			
SEP	4	2115	ROOM MAST	0 0	0 0	0 0	0 1	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.32 0.26			
SEP	4	2118	ROOM MAST	0 0	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.20 0.16			
SEP	4	2121	ROOM MAST	0 0	0 0	0 0	1 1	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.25 0.21			
SEP	4	2124	ROOM MAST	0 0	0 0	0 0	1 1	2 0	1 2	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.30 0.26			
SEP	4	2127	ROOM MAST	0 0	0 0	0 0	0 0	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.29 0.29			
SEP	4	2130	ROOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 3	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0.55 0.43			
SEP	4	2133	ROOM MAST	0 0	0 0	0 0	0 0	0 2	1 2	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.29 0.24			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	AMOUNTS MM
SEP	4	2136	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.34 0.30
SEP	4	2139	BOOM MAST	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.28 0.37
SEP	4	2142	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13 0.31
SEP	4	2145	BOOM MAST	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0.32 0.30
SEP	4	2148	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.32 0.27
SEP	4	2151	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.43 0.34
SEP	4	2154	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.36 0.31
SEP	4	2157	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.27 0.22
SEP	4	22 0	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.21 0.16
SEP	4	22 3	BOOM MAST	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0.27 0.24
SEP	4	22 6	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.29 0.28
SEP	4	22 9	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.31 0.28
SEP	4	2212	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.26 0.22
SEP	4	2215	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.21 0.19

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0								
SEP	4	2218	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0.20 0.14						
SEP	4	2221	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.35 0.14							
SEP	4	2224	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.13							
SEP	4	2227	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.11							
SEP	4	2230	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.12							
SEP	4	2233	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.14							
SEP	4	2236	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.13							
SEP	4	2239	BOOM MAST	0 0	0 0	0 0	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.29							
SEP	4	2242	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.16							
SEP	4	2245	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.12							
SEP	4	2248	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.11							
SEP	4	2251	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.11							
SEP	4	2254	BOOM MAST	0 0	0 0	0 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.11							
SEP	4	2257	BOOM MAST	0 0	0 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.10							

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0												>	TOTAL	
				0.2	1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	105.0
SEP	4	23 0	BOOM MAST	0 0	0 1	0 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.11
SEP	4	23 3	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.12
SEP	4	23 6	BOOM MAST	0 0	0 1	0 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.11
SEP	4	23 9	BOOM MAST	0 0	0 1	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.10
SEP	4	23 12	BOOM MAST	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.05

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD
 MONTH DAY TIME MONTH DAY TIME BOOM MAST
 SEP 4 16 0 TO SEP 4 2330 41.0 MM 34.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE			YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>			
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		
SEP	5	830	BDDM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
SEP	5	833	BDDM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
SEP	5	836	BDDM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
SEP	5	839	BDDM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
SEP	5	842	BDDM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
SEP	5	845	BDDM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
SEP	5	848	BDDM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BDDM MAST 0.2 MM

SEP 5 830 TO SEP 5 851 0.2 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER OCCURRENCE OF RATES BY CLASS IN MM/HR PROJECT: GATE YEAR: 1974

MONTH DAY TIME(Z) SENSOR			<1.0 0.2																	<1.5 1.0																	<2.1 1.5																	<3.0 2.1																	<4.3 3.0																	<5.1 4.3																	<6.1 8.7																	<8.7 12.4																	<18.0 25.0																	<36.0 51.0																	<73.0 105.0																	> 105.0																	TOTAL AMOUNTS MM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
SEP	5	1951	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974	
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	TOTAL AMOUNTS MM
SEP	5 2033	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	5 2036	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 2039	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 2042	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 2045	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 2048	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 2051	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 2054	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 2057	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 21 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 21 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 21 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 21 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	5 2112	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
SEP	5	2115	BOOM MAST	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.11 M
SEP	5	2118	BOOM MAST	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0.60 M
SEP	5	2121	BOOM MAST	0	0	0	0	0	0	0	0	1	0	1	2	2	4	0	2.05 M
SEP	5	2124	BOOM MAST	0	0	0	0	0	0	0	2	0	0	0	1	2	0	0	1.05 M
SEP	5	2127	BOOM MAST	0	0	0	0	0	0	1	0	0	1	1	3	0	1	0	1.36 M
SEP	5	2130	BOOM MAST	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0.76 M
SEP	5	2133	BOOM MAST	0	0	0	0	0	0	0	0	1	0	4	2	0	0	0	1.45 M
SEP	5	2136	BOOM MAST	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	1.01 M
SEP	5	2139	BOOM MAST	0	0	0	0	0	0	0	0	2	3	1	0	0	0	0	1.08 M
SEP	5	2142	BOOM MAST	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0.77 M
SEP	5	2145	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.41 M
SEP	5	2148	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.22 M
SEP	5	2151	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14 M
SEP	5	2154	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.17 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			PROJECT: GATE															YEAR: 1974	
			OCCURRENCE OF RATES BY CLASS IN MM/HR																
MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
SEP	5	2157	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M
SEP	5	22 0	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.14 M
SEP	5	22 3	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M
SEP	5	22 6	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.00 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	SEP 5 1951 TO	SEP 5 2230	27.8 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974		TOTAL AMOUNTS MM	
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0						
SEP	6 527	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
SEP	6 530	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
SEP	6 533	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
SEP	6 536	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0.60
		0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12
SEP	6 539	0	0	0	0	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0.81
		0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.32
SEP	6 542	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.15
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20
SEP	6 545	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.23
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME MONTH DAY TIME MAST

SEP 6 527 TO SEP 6 721 2.0 MM 1.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		PROJECT: GATE														YEAR: 1974	
		OCCURRENCE OF RATES BY CLASS IN MM/HR															
MONTH DAY TIME(Z) SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	6 13 3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10
		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11
SEP	6 13 6	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0.15
		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	SEP 6 13 3 TO	SEP 6 13 12	SEP 6 13 12	0.4 MM	0.2 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	> TOTAL AMOUNTS MM
SEP 10 1348	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16
SEP 10 1351	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.14
SEP 10 1354	BOOM MAST	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0.22
SEP 10 1357	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.24
SEP 10 14 0	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.11
SEP 10 14 3	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09
SEP 10 14 6	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
SEP 10 1348 TO SEP 10 1415 M 1.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)			SENSOR	<1.0 0.2													> 105.0													TOTAL AMOUNTS MM
				<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0													
SEP	11	2245	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.10	M											
SEP	11	2248	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10	M										
SEP	11	2251	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	39	7.68	M											
SEP	11	2254	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	2	10	16	5.71	M											
SEP	11	2257	BOOM MAST	0	0	0	0	0	0	0	0	0	0	1	6	13	0	3.82	M											
SEP	11	23 0	BOOM MAST	0	0	0	0	0	0	0	0	0	3	0	7	3	0	2.62	M											
SEP	11	23 3	BOOM MAST	0	0	0	0	0	0	0	0	0	0	1	12	2	0	3.12	M											
SEP	11	23 6	BOOM MAST	0	0	0	0	0	0	0	0	0	0	2	6	10	0	3.51	M											
SEP	11	23 9	BOOM MAST	0	0	0	0	0	0	0	0	0	0	1	5	13	1	3.94	M											
SEP	11	2312	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	10	7	0	3.54	M											
SEP	11	2315	BOOM MAST	0	0	0	0	0	0	0	0	1	5	0	4	1	0	2.12	M											
SEP	11	2318	BOOM MAST	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.73	M											
SEP	11	2321	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.33	M											
SEP	11	2324	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.22	M											

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	11	2327	BOOM MAST	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0.28 M
SEP	11	2330	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.36 M
SEP	11	2333	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.31 M
SEP	11	2336	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.22 M
SEP	11	2339	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.13 M
SEP	11	2342	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
SEP	11	2345	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
SEP	11	2348	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	SEP 11 2245 TO	SEP 12 115	39.2 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE		YEAR: 1974	
MONTH DAY TIME(Z) SENSOR			<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM					
SEP	12 1618	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.02				
		MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
SEP	12 1621	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.02				
		MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
SEP	12 1624	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.02				
		MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
SEP	12 1627	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.02				
		MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
SEP	12 1630	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.02				
		MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
SEP	12 1633	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.02				
		MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
SEP	12 1636	BOOM	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.03	0.02				
		MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
SEP	12 1639	BOOM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09	0.02				
		MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
SEP	12 1642	BOOM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09	0.02				
		MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
SEP	12 1645	BOOM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.16	0.09				
		MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09					
SEP	12 1648	BOOM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.18	0.10				
		MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.10					
SEP	12 1651	BOOM	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0.36	0.26				
		MAST	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0.26					
SEP	12 1654	BOOM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.33	0.27				
		MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.27					
SEP	12 1657	BOOM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0.21	0.19				
		MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.19					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM				
SEP	12	17 0	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.37 0.26				
SEP	12	17 3	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.36 0.30				
SEP	12	17 6	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.41 0.28				
SEP	12	17 9	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.40 0.27				
SEP	12	17 12	BOOM MAST	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.44 0.30				
SEP	12	17 15	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.33 0.24				
SEP	12	17 18	BOOM MAST	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.28 0.18				
SEP	12	17 21	BOOM MAST	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0.41 0.33				
SEP	12	17 24	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0.73 0.52				
SEP	12	17 27	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0.42 0.34				
SEP	12	17 30	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.38 0.30				
SEP	12	17 33	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.37 0.29				
SEP	12	17 36	BOOM MAST	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0.37 0.45				
SEP	12	17 39	BOOM MAST	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0.39 0.50				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH DAY TIME(Z) SENSOR			<1.0	<1.5	<2.1	<3.0	<4.3	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0	TOTAL AMOUNTS MM							
			0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	> 105.0							
SEP	12 1742	BOOM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.12						
		MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.41						
SEP	12 1745	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03						
		MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.41						
SEP	12 1748	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03						
		MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.31						
SEP	12 1751	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03						
		MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.31						
SEP	12 1754	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03						
		MAST	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0.48						
SEP	12 1757	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03						
		MAST	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0.58						
SEP	12 18 0	BOOM	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.17						
		MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.41						
SEP	12 18 3	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10						
		MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06						
SEP	12 18 6	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06						
		MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03						
SEP	12 18 9	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06						
		MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03						
SEP	12 1812	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06						
		MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03						
SEP	12 1815	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07						
		MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03						
SEP	12 1818	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07						
		MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03						
SEP	12 1821	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07						
		MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04						

AUTOMATED MEASUREMENT OF PRECIPITATION RATES AND AMOUNTS BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES 8Y CLASS IN MM/HR

[illegible]

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	MONTH DAY TIME	MAST
	SEP 12 1618 T3	SEP 12 19 3	8.8 MM	9.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL	
		<1.0	<1.5	<2.1	<3.0	<4.3	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	AMOUNTS	MM
SEP 14 1457	BOOM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09	
	MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08	
SEP 14 15 0	BOOM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09	
	MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08	
SEP 14 15 3	BOOM	0	0	1	0	0	0	1	0	1	2	0	0	0	0	0	0.64	
	MAST	0	0	1	0	0	1	0	0	2	0	0	0	0	0	0	0.44	

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	SEP 14 1457 TO	SEP 14 1512	1.0 MM	0.8 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN M4/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	AMOUNTS M
SEP	16	1024	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13
SEP	16	1027	BOOM MAST	0	0	0	1	0	0	0	0	0	0	1	0	1	1	10	2.57
SEP	16	1030	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	7	29	7.24
SEP	16	1033	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	4	10	10	4.68
SEP	16	1036	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	2	3	4	0	2.74
SEP	16	1039	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	2	2	9	0	2.51
SEP	16	1042	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	5	4	0	0	1.86
SEP	16	1045	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	3	6	0	0	1.87
SEP	16	1048	BOOM MAST	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	1.37
SEP	16	1051	BOOM MAST	0	0	0	0	0	0	0	0	1	0	4	2	0	0	0	1.31
SEP	16	1054	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.24
SEP	16	1057	BOOM MAST	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.16
SEP	16	11 0	BOOM MAST	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0.46
SEP	16	11 3	BOOM MAST	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0.64

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974	
MONTH	DAY TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
			0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
SEP	16 11 6	BOOM MAST	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.24
SEP	16 11 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16 11 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16 11 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16 11 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16 11 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16 11 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16 11 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
SEP 16 1024 TO SEP 16 1212 28.2 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0																>				TOTAL AMOUNTS MM
				0.2	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	105.0	105.0	105.0	105.0	105.0	
SEP	16	1639	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16	1642	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16	1645	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16	1648	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16	1651	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16	1654	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	16	1657	BOOM	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.23
			MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
SEP	16	17 0	BOOM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.28
			MAST	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.17
SEP	16	17 3	BOOM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.17
			MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08
SEP	16	17 6	BOOM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.14
			MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08
SEP	16	17 9	BOOM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10
			MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08
SEP	16	1712	BOOM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11
			MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08
SEP	16	1715	BOOM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13
			MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08
SEP	16	1718	BOOM	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.38
			MAST	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.24

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0					
SEP	16	1721	BOOM MAST	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0.59		
				0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0.63		
SEP	16	1724	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.40		
				0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.41		
SEP	16	1727	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.27		
				0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.27		
SEP	16	1730	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.29		
				0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.22		
SEP	16	1733	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.27		
				0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.27		
SEP	16	1736	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.23		
				0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.19		
SEP	16	1739	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04		
				0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.23		
SEP	16	1742	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
				0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.24		
SEP	16	1745	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
				0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.26		
SEP	16	1748	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
				0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.27		
SEP	16	1751	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
				0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.42		
SEP	16	1754	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
				0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0.62		
SEP	16	1757	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
				0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0.76		
SEP	16	18 0	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
				0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0.64		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR				OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL AMOUNTS MM
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0		
SEP	16	18 3	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 3	0 0	0 0	0 0	0 0	0 0	0.01 0.65	
SEP	16	18 6	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 4	0 0	0 0	0 0	0 0	0 0	0.01 0.76	
SEP	16	18 9	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 4	0 0	0 0	0 0	0 0	0 0	0.01 0.80	
SEP	16	18 12	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 4	0 0	0 0	0 0	0 0	0 0	0.01 0.79	
SEP	16	18 15	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 3	0 0	0 0	0 0	0 0	0 0	0.01 0.72	
SEP	16	18 18	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 1	0 0	0 0	0 0	0 0	0 0	0.01 0.60	
SEP	16	18 21	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0.01 0.48	
SEP	16	18 24	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.33	
SEP	16	18 27	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.27	
SEP	16	18 30	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.39	
SEP	16	18 33	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.26	
SEP	16	18 36	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.19	
SEP	16	18 39	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.18	
SEP	16	18 42	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.20	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0							
SEP	16	1845	BOOM MAST	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.22					
SEP	16	1848	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.23					
SEP	16	1851	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.28					
SEP	16	1854	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.26					
SEP	16	1857	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.23					
SEP	16	19 0	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.26					
SEP	16	19 3	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.29					
SEP	16	19 6	BOOM MAST	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.25 0.21					
SEP	16	19 9	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.20 0.18					
SEP	16	1912	BOOM MAST	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.16					
SEP	16	1915	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.12					
SEP	16	1918	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.12					
SEP	16	1921	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.12 0.11					
SEP	16	1924	BOOM MAST	0 0	1 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.10					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	16 1927	BOOM MAST	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.09
SEP	16 1930	BOOM MAST	0 0	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.07
SEP	16 1933	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.05
SEP	16 1936	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.05
SEP	16 1939	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.05
SEP	16 1942	BOOM MAST	0 0	1 1	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.17 0.27
SEP	16 1945	BOOM MAST	0 0	1 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.22
SEP	16 1948	BOOM MAST	0 1	1 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.13
SEP	16 1951	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.02
SEP	16 1954	BOOM MAST	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.02
SEP	16 1957	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
SEP	16 20 0	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
SEP	16 20 3	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
SEP	16 20 6	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH DAY TIME(Z)			SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM					
SEP	16	20 9	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02					
SEP	16	20 12	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02					
SEP	16	20 15	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02					
SEP	16	20 18	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02					
SEP	16	20 21	BOOM MAST	1 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.02					
SEP	16	20 24	BOOM MAST	1 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.02					
SEP	16	20 27	BOOM MAST	1 0	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.05					
SEP	16	20 30	BOOM MAST	0 0	0 0	1 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.11					
SEP	16	20 33	BOOM MAST	0 0	0 0	0 0	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.12					
SEP	16	20 36	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.12					
SEP	16	20 39	BOOM MAST	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.20 0.18					
SEP	16	20 42	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.21 0.19					
SEP	16	20 45	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.29 0.24					
SEP	16	20 48	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.32 0.29					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	16	2051	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.25 0.21
SEP	16	2054	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.21 0.16
SEP	16	2057	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.21 0.16
SEP	16	21 0	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 0	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.29 0.22
SEP	16	21 3	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.35 0.32
SEP	16	21 6	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 2	3 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.44 0.38
SEP	16	21 9	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 2	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.48 0.42
SEP	16	2112	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 1	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.38 0.33
SEP	16	2115	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.32 0.25
SEP	16	2118	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 2	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.30 0.25
SEP	16	2121	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.31 0.28
SEP	16	2124	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.31 0.27
SEP	16	2127	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.28 0.23
SEP	16	2130	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.31 0.28

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 12.4	<12.4 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM				
SEP	16	2133	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.35 0.28				
SEP	16	2136	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.31 0.25				
SEP	16	2139	BOOM MAST	0 0	0 0	0 0	0 0	0 0	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.25 0.25				
SEP	16	2142	BOOM MAST	0 0	0 0	0 0	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.22 0.26				
SEP	16	2145	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.20 0.31				
SEP	16	2148	BOOM MAST	0 0	0 0	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.16				
SEP	16	2151	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.24 0.19				
SEP	16	2154	BOOM MAST	0 0	0 0	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.24 0.18				
SEP	16	2157	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.25 0.22				
SEP	16	22 0	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.28 0.22				
SEP	16	22 3	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.34 0.29				
SEP	16	22 6	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 2	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.41 0.34				
SEP	16	22 9	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 2	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.41 0.37				
SEP	16	2212	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 2	2 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0.42 0.34				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974	
MONTH DAY TIME(Z)		SENSOR		<1.0 0-2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	16 2215	BOOM MAST		0 0	0 0	0 0	0 0	0 0	0 0	0 1	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.51 0.40
SEP	16 2218	BOOM MAST		0 0	0 0	0 0	0 0	0 1	0 1	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.38 0.33
SEP	16 2221	BOOM MAST		0 0	0 0	0 0	0 0	0 0	0 1	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.37 0.30
SEP	16 2224	BOOM MAST		0 0	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.31 0.30
SEP	16 2227	BOOM MAST		0 0	0 0	0 0	0 0	0 0	0 2	1 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.42 0.33
SEP	16 2230	BOOM MAST		0 0	0 0	0 0	0 0	0 0	0 1	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.43 0.35
SEP	16 2233	BOOM MAST		0 0	0 0	0 0	0 0	0 0	0 1	0 2	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.47 0.43
SEP	16 2236	BOOM MAST		0 0	0 0	0 0	0 0	0 0	0 2	0 1	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.49 0.45
SEP	16 2239	BOOM MAST		0 0	0 0	0 0	0 0	0 0	0 2	0 0	2 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.44 0.40
SEP	16 2242	BOOM MAST		0 0	0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.34 0.32
SEP	16 2245	BOOM MAST		0 0	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.23 0.19
SEP	16 2248	BOOM MAST		0 0	0 0	0 1	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.17 0.15
SEP	16 2251	BOOM MAST		0 0	0 0	0 1	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.15
SEP	16 2254	BOOM MAST		1 0	0 0	0 1	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.19

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR			<1.0																>					TOTAL AMOUNTS MM
			0.2	1.0	<1.5	<2.1	<3.0	<4.3	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	105.0						
SEP	16	2257	BOOM MAST	1 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.11				
SEP	16	23 0	BOOM MAST	1 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.12				
SEP	16	23 3	BOOM MAST	1 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.13				
SEP	16	23 6	BOOM MAST	1 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.09				
SEP	16	23 9	BOOM MAST	1 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.09				
SEP	16	2312	BOOM MAST	0 1	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.07				
SEP	16	2315	BOOM MAST	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.05				
SEP	16	2318	BOOM MAST	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.05				
SEP	16	2321	BOOM MAST	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.05				
SEP	16	2324	BOOM MAST	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03				
SEP	16	2327	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03				
SEP	16	2330	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.03				
SEP	16	2333	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.03				
SEP	16	2336	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.03				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP 16 2339	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.03
SEP 16 2342	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP 16 2345	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD

SEP 16 1639 TO SEP 17 045 BOOM MAST
31.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		SENSOR		OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL AMOUNTS MM	
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0			
SEP	17 545	BOOM MAST		0 0	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.15		
SEP	17 548	BOOM MAST		1 0	0 0	1 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.18		
SEP	17 551	BOOM MAST		1 1	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.09		
SEP	17 554	BOOM MAST		1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03		
SEP	17 557	BOOM MAST		1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03		
SEP	17 6 0	BOOM MAST		1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03		
SEP	17 6 3	BOOM MAST		1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03		
SEP	17 6 6	BOOM MAST		1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03		
SEP	17 6 9	BOOM MAST		1 1	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.18 0.07		
SEP	17 612	BOOM MAST		0 0	0 0	0 1	0 0	1 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0.31 0.20		
SEP	17 615	BOOM MAST		0 0	0 0	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.12 0.09		
SEP	17 618	BOOM MAST		0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.07		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD
SEP 17 545 TO SEP 17 633 1.0 MM BOOM 1.0 MM MAST

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974
MONTH DAY TIME(Z)		SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM	
SEP	17 645	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.06	
SEP	17 648	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.06	
SEP	17 651	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.06	
SEP	17 654	BOOM MAST	0 1	0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.26 0.05	
SEP	17 657	BOOM MAST	0 1	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.05	
SEP	17 7 0	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.05	
SEP	17 7 3	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.05	
SEP	17 7 6	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.01	

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME MONTH DAY TIME MAST

SEP 17 645 TO SEP 17 730 0.6 MM 0.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0				
SEP	20	557	BOOM MAST	0	0	0	0	0	0	0	0	0	1	2	2	2	0	0	1.39	M	
SEP	20	6 0	BOOM MAST	0	0	0	0	0	1	0	0	1	1	2	0	0	0	0	0.87	M	
SEP	20	6 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.15	M	
SEP	20	6 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	20	6 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	20	6 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	20	6 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	20	6 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	20	6 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	20	6 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	20	6 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	20	6 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	20	6 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	20	6 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
				M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
SEP	20	639	BOOM MAST	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.04
SEP	20	642	BOOM MAST	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0.58
SEP	20	645	BOOM MAST	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1.08
SEP	20	648	BOOM MAST	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	1.30
SEP	20	651	BOOM MAST	0	0	0	0	0	0	0	0	0	1	5	3	0	0	0	1.69
SEP	20	654	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	2	8	4	0	2.82
SEP	20	657	BOOM MAST	0	0	0	0	0	0	0	0	0	0	3	2	5	4	0	2.79
SEP	20	7 0	BOOM MAST	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0.64
SEP	20	7 3	BOOM MAST	0	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0.95
SEP	20	7 6	BOOM MAST	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0.57
SEP	20	7 9	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.28
SEP	20	712	BOOM MAST	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0.27
SEP	20	715	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
SEP	20	718	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	20 721	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
	BOOM																M
	MAST																0.06

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	SEP 20 4 0 TO	SEP 20 7 45	M	16.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)			SENSOR	<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 0.2																<1.0 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MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	21	748	ROOM MAST	0 0	0 0	0 0	1 1	0 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.42 0.12
SEP	21	751	ROOM MAST	0 0	0 1	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.19 0.10
SEP	21	754	ROOM MAST	0 0	0 1	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.06
SEP	21	757	ROOM MAST	0 0	0 1	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.18 0.06
SEP	21	8 0	ROOM MAST	0 1	0 1	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.06
SEP	21	8 3	ROOM MAST	0 1	0 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.04
SEP	21	8 6	ROOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04
SEP	21	8 9	ROOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04
SEP	21	812	ROOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04
SEP	21	815	ROOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04
SEP	21	818	ROOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.36
SEP	21	821	ROOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 1	0 1	0 0	0 0	0 1	0 14	0 14	0.06 3.60
SEP	21	824	ROOM MAST	0 0	0 0	0 1	0 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0.06 0.68
SEP	21	827	ROOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.14

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

PROJECT: GATE

MONTH DAY TIME(Z)			SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
SEP	21	830	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.14
				0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.10
SEP	21	833	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.12
				0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09
SEP	21	836	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09
				0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09
SEP	21	839	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09
				0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09
SEP	21	842	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
				1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06
SEP	21	845	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	21	848	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	21	951	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	21	854	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	21	857	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	21	9 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	21	9 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	21	9 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	21	9 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: RESEARCHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>			
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		
SEP	21	912	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
			MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
SEP	21	915	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
			MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	SEP	21	7	6	TO	SEP	21	930	11.0 MM	BOOM	MAST	14.0 MM
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AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0	TOTAL AMOUNTS MM				
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0				
JUL	2	1851	BOOM MAST	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.06			
JUL	2	1854	BOOM MAST	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.06			
JUL	2	1857	BOOM MAST	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.06			
JUL	2	19 0	BOOM MAST	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0.03 0.24			
JUL	2	19 3	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03			
JUL	2	19 6	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03			
JUL	2	19 9	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	2 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0.56 0.03			
JUL	2	1912	BOOM MAST	0 1	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.23 0.03			
JUL	2	1915	BOOM MAST	0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.12 0.03			
JUL	2	1918	BOOM MAST	0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.12 0.03			
JUL	2	1921	BOOM MAST	0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.03			
JUL	2	1924	BOOM MAST	1 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 0	0.27 0.04			
JUL	2	1927	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04			
JUL	2	1930	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		PROJECT: GATE														YEAR: 1974	
		OCCURRENCE OF RATES BY CLASS IN MM/HR															
MONTH DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JUL 2 1933	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
JUL 2 1936	BOOM MAST	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.15
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL 2 1939	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL 2 1942	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL 2 1945	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL 2 1948	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL 2 1951	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL 2 1954	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL 2 1957	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL 2 20 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL 2 20 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
JUL 2 1851 TO JUL 2 2021 2-2 MM 1.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>	TOTAL	AMOUNTS MM					
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0			105.0				
JUL	6	1515	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.04					
JUL	6	1518	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.04					
JUL	6	1521	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.04					
JUL	6	1524	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.04					
JUL	6	1527	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.13					
JUL	6	1530	BOOM MAST	1 0	0 0	0 0	0 0	1 0	0 0	0 0	1 2	1 0	0 0	0 0	0 0	0 0	0 0	2 1	0.85 0.67					
JUL	6	1533	BOOM MAST	1 1	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.08					
JUL	6	1536	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04					
JUL	6	1539	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04					
JUL	6	1542	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04					
JUL	6	1545	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04					
JUL	6	1548	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.05					
JUL	6	1551	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.05					
JUL	6	1554	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.05					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0 <1.5 <2.1 <3.0 <4.3 <5.1 <8.7 <12.4 <18.0 <25.0 <36.0 <51.0 <73.0 <105.0 >															TOTAL AMOUNTS MM	
		0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0
JUL 6 1557	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.21
	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL 6 16 0	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUL 6 1515 TO	JUL 6 16 9	1.6 MM	1.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		PROJECT: GATE YEAR: 1974																
		OCCURRENCE OF RATES BY CLASS IN MM/HR																
MONTH	DAY TIME(Z)	SENSOR	<1.0 <1.5 <2.1 <3.0 <4.3 <5.1 <8.7 <12.4 <18.0 <25.0 <36.0 <51.0 <73.0 <105.0 >															TOTAL AMOUNTS MM
			0.2	1.0	1.5	2.1	3.0	4.3	5.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
JUL	6 1742	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.07
JUL	6 1745	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.07
JUL	6 1748	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.07
JUL	6 1751	BOOM MAST	0 0	1 1	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	1 0	0.36 0.37
JUL	6 1754	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 0	1 0	0 0	0 0	0 0	1 0	1 3	2 1	0 0	0 0	1.04 0.97
JUL	6 1757	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	6 12	14 6	0 0	3.89 3.56
JUL	6 18 0	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3 9	18 10	0 0	4.23 3.86
JUL	6 18 3	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 1	3 4	4 3	2 1	1 1	0 0	2.17 1.90
JUL	6 18 6	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	2 0	0 1	2 0	1 0	1 0	0 0	0 0	0 0	0 0	1.06 0.62
JUL	6 18 9	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 1	1 1	1 2	0 0	0 0	0 0	0 0	0 0	0 0	0.62 0.51
JUL	6 1812	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 1	2 1	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0.68 0.80
JUL	6 1815	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 0	3 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0.65 0.70
JUL	6 1818	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 1	1 1	0 4	2 2	0 0	0 0	0 0	0 0	1.01 0.91
JUL	6 1821	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	2 1	2 0	0 1	1 1	1 0	1 1	0 0	0 0	0 0	0.85 0.92

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH DAY TIME(Z)			SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM						
JUL	6	1824	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0.46 0.44						
JUL	6	1827	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 1	1 0	1 2	2 1	0 0	0 0	0 0	0.94 0.91						
JUL	6	1830	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 1	0 1	2 2	2 1	0 0	0 0	0 0	1.21 1.19						
JUL	6	1833	BOOM MAST	0 0	0 0	0 0	0 1	0 1	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.41 0.38						
JUL	6	1836	BOOM MAST	0 0	0 0	0 0	0 1	0 1	1 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0.28 0.25						
JUL	6	1839	BOOM MAST	0 0	0 0	0 0	0 0	0 1	1 0	0 0	1 1	0 0	0 1	0 0	0 0	0 0	0 0	0.58 0.73						
JUL	6	1842	BOOM MAST	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.22 0.22						
JUL	6	1845	BOOM MAST	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.10						
JUL	6	1848	BOOM MAST	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.09						
JUL	6	1851	BOOM MAST	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.08						
JUL	6	1854	BOOM MAST	0 0	0 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.08						
JUL	6	1857	BOOM MAST	0 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.07						
JUL	6	19 0	BOOM MAST	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.07						
JUL	6	19 3	BOOM MAST	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.06						

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD
JUL 6 1742 TO JUL 6 20 9 21.3 MM 300M MAST 20.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM	
JUL	7	051	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	7	054	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL	7	057	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL	7	1 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL	7	1 3	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL	7	1 6	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10
JUL	7	1 9	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12
JUL	7	112	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.17
JUL	7	115	BOOM MAST	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.21
JUL	7	118	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.12
JUL	7	121	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09
JUL	7	124	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
JUL	7	127	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
JUL	7	130	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0					
JUL	7	133	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	M	0.13		
JUL	7	136	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M	0.18		
JUL	7	139	BOOM MAST	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	M	0.28		
JUL	7	142	BOOM MAST	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	M	0.31		
JUL	7	145	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	M	0.22		
JUL	7	148	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	M	0.25		
JUL	7	151	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	M	0.36		
JUL	7	154	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.12		
JUL	7	157	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.06		
JUL	7	2 0	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.06		
JUL	7	2 3	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	M	0.08		
JUL	7	2 6	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M	0.10		
JUL	7	2 9	BOOM MAST	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	M	0.22		
JUL	7	212	BOOM MAST	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	M	0.57		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH DAY TIME(Z)			SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS	MM			
JUL	7	215	BOOM MAST	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0.70			
JUL	7	218	BOOM MAST	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0.66			
JUL	7	221	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.29			
JUL	7	224	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.17			
JUL	7	227	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.49			
JUL	7	230	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.57			
JUL	7	233	BOOM MAST	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0.78			
JUL	7	236	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.38			
JUL	7	239	BOOM MAST	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0.55			
JUL	7	242	BOOM MAST	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	2.26			
JUL	7	245	BOOM MAST	0	0	0	0	0	0	0	0	1	0	3	1	3	0	0	2.14			
JUL	7	248	BOOM MAST	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0.62			
JUL	7	251	BOOM MAST	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.37			
JUL	7	254	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.33			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MW/HR															PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 73.0	105.0	TOTAL AMOUNTS MM			
JUL	7	257	BOOM MAST	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0.43			
JUL	7	3 0	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.38			
JUL	7	3 3	BOOM MAST	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0.89			
JUL	7	3 6	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	4	9	0	0	2.64			
JUL	7	3 9	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	4	10	0	0	2.68			
JUL	7	3 12	BOOM MAST	0	0	0	0	0	0	0	0	0	1	3	5	0	0	0	1.76			
JUL	7	3 15	BOOM MAST	0	0	0	0	0	0	0	0	0	2	3	2	1	0	0	1.69			
JUL	7	3 18	BOOM MAST	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	1.25			
JUL	7	3 21	BOOM MAST	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0.83			
JUL	7	3 24	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.32			
JUL	7	3 27	BOOM MAST	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0.48			
JUL	7	3 30	BOOM MAST	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0.81			
JUL	7	3 33	BOOM MAST	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0.76			
JUL	7	3 36	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.60			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>	105.0					
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0						
JUL	7	339	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	M	0.40			
JUL	7	342	BOOM MAST	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0	M	1.01			
JUL	7	345	BOOM MAST	0	0	0	0	0	1	0	2	2	0	0	0	0	0	0	M	0.84			
JUL	7	348	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	M	0.33			
JUL	7	351	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M	3.22			
JUL	7	354	BOOM MAST	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	M	7.24			
JUL	7	357	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	M	0.35			
JUL	7	4 0	BOOM MAST	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	M	0.26			
JUL	7	4 3	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	M	0.66			
JUL	7	4 6	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	M	0.38			
JUL	7	4 9	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	M	0.26			
JUL	7	4 12	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	M	0.28			
JUL	7	4 15	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M	0.19			
JUL	7	4 18	BOOM MAST	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	M	0.31			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM			
JUL	7	421	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.24			
JUL	7	424	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.22			
JUL	7	427	BOOM MAST	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0.66			
JUL	7	430	BOOM MAST	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0.60			
JUL	7	433	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.64			
JUL	7	436	BOOM MAST	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.46			
JUL	7	439	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.14			
JUL	7	442	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08			
JUL	7	445	BOOM MAST	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.10			
JUL	7	448	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.23			
JUL	7	451	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16			
JUL	7	454	BOOM MAST	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0.20			
JUL	7	457	BOOM MAST	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0.40			
JUL	7	5 0	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>	TOTAL AMOUNTS MM				
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0			
JUL	7	5 3	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	M	0.12			
JUL	7	5 6	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M	0.16			
JUL	7	5 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			
JUL	7	5 42	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL	
		<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	AMOUNTS	MM
JUL 7 545	BOOM MAST	0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD JUL 6 2342 TO JUL 7 551 M MAST 40.6 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM	
JUL	8	1630	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	8	1633	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	8	1636	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	8	1639	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	8	1642	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	8	1645	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	8	1648	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	8	1651	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
JUL	8	1654	ROOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.09	M
JUL	8	1657	ROOM MAST	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0.30	M
JUL	8	17 0	ROOM MAST	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0.84	M
JUL	8	17 3	ROOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.65	M
JUL	8	17 6	ROOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.42	M
JUL	8	17 9	ROOM MAST	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0.80	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
		0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
JUL 8 1712	800M MAST	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0.72
JUL 8 1715	800M MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.34
JUL 8 1718	800M MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18
JUL 8 1721	800M MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.13
JUL 8 1724	800M MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12
JUL 8 1727	800M MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.06
JUL 8 1730	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL 8 1733	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL 8 1736	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL 8 1739	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD JUL 8 1630 TO JUL 8 1751 MAST 5.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
JUL	14	218	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	14	221	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
JUL	14	224	BOOM MAST	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0.20 M
JUL	14	227	BOOM MAST	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0.58 M
JUL	14	230	BOOM MAST	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0.45 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUL 14 218 TO	JUL 14 236	1.4 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		PROJECT: GATE															YEAR: 1974	
		OCCURRENCE OF RATES BY CLASS IN MM/HR																
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
JUL	14 1051	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	14 1054	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	14 1057	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	14 11 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	14 11 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	14 11 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	14 11 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	14 1112	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	14 1115	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	14 1118	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	14 1121	BOOM MAST	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.21 M
JUL	14 1124	BOOM MAST	0	0	0	0	0	0	0	0	0	1	1	3	0	0	0	1.08 M
JUL	14 1127	BOOM MAST	0	0	0	0	0	0	0	0	0	0	1	3	6	3	1	2.80 M
JUL	14 1130	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	3	8	5	0	3.12 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
JUL	14	1133	BOOM MAST	0	0	0	0	0	0	0	0	2	0	1	1	4	0	0	1.75 M
JUL	14	1136	BOOM MAST	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0.59 M
JUL	14	1139	BOOM MAST	0	0	0	0	0	0	0	0	0	1	1	2	4	3	4	2.96 M
JUL	14	1142	BOOM MAST	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0.89 M
JUL	14	1145	BOOM MAST	0	0	0	0	0	0	0	0	1	1	3	0	5	2	0	2.22 M
JUL	14	1148	BOOM MAST	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0.96 M
JUL	14	1151	BOOM MAST	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0.53 M
JUL	14	1154	BOOM MAST	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0.51 M
JUL	14	1157	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.19 M
JUL	14	12 0	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
JUL	14	12 3	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
JUL	14	12 6	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
JUL	14	12 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
JUL	14	1212	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 73.0	> 105.0					
JUL	14	1215	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M		
JUL	14	1218	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10	M	
JUL	14	1221	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	M	
JUL	14	1224	BOOM MAST	0	0	0	1	0	0	0	1	0	1	0	3	1	0	0	0	0	1.17	M	
JUL	14	1227	BOOM MAST	0	0	0	0	0	0	0	0	1	0	2	4	2	0	0	0	0	1.78	M	
JUL	14	1230	BOOM MAST	0	0	0	0	0	0	0	0	0	0	2	1	9	0	0	0	0	2.42	M	
JUL	14	1233	BOOM MAST	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0.48	M	
JUL	14	1236	BOOM MAST	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.17	M	
JUL	14	1239	BOOM MAST	0	0	0	0	0	0	0	0	0	0	3	2	1	2	0	0	0	1.61	M	
JUL	14	1242	BOOM MAST	0	0	0	0	0	0	0	0	0	0	1	8	2	0	0	0	0	2.21	M	
JUL	14	1245	BOOM MAST	0	0	0	0	0	0	0	0	0	0	2	4	5	0	0	0	0	2.21	M	
JUL	14	1248	BOOM MAST	0	0	0	0	0	0	0	0	1	2	1	4	0	0	0	0	0	1.57	M	
JUL	14	1251	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0.63	M	
JUL	14	1254	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0.44	M	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE			YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM	
JUL	14	1257	BOOM MAST	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0.56 M	
JUL	14	13 0	BOOM MAST	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0.55 M	
JUL	14	13 3	BOOM MAST	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0.87 M	
JUL	14	13 6	BOOM MAST	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0.79 M	
JUL	14	13 9	BOOM MAST	0	0	0	0	0	0	0	0	0	4	1	0	0	0	1.03 M	
JUL	14	1312	BOOM MAST	0	0	0	0	0	0	0	0	0	0	5	2	2	0	1.79 M	
JUL	14	1315	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	10	2	0	2.38 M	
JUL	14	1318	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	4	0	0	1.11 M	
JUL	14	1321	BOOM MAST	0	0	0	0	0	0	1	0	0	0	1	0	3	0	0.97 M	
JUL	14	1324	BOOM MAST	0	0	0	0	0	0	1	0	0	0	2	4	4	0	2.09 M	
JUL	14	1327	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.25 M	
JUL	14	1330	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.14 M	
JUL	14	1333	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M	
JUL	14	1336	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM	
JUL	14	1339	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.12 M	
JUL	14	1342	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.16 M	
JUL	14	1345	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M	
JUL	14	1348	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.07 M	

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUL 14 1051	TO JUL 14 1357		46.4 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM					
JUL	14	17 9	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1712	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1715	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1718	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1721	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1724	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1727	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1730	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1733	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1736	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1739	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1742	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02				
JUL	14	1745	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.02				
JUL	14	1748	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0																>								TOTAL AMOUNTS MM
		0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	105.0									
JUL 14 1751	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02								
JUL 14 1754	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02								
JUL 14 1757	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02								
JUL 14 18 0	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02								
JUL 14 18 3	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02								
JUL 14 18 6	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02								
JUL 14 18 9	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02								
JUL 14 1812	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02								
JUL 14 1815	BOOM MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0								
		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01								

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
JUL 14 17 9 TO JUL 14 1827 0.2 MM 0.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
AUG	7	445	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
AUG	7	448	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M
AUG	7	451	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.13 M
AUG	7	454	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 7 445 TO AUG 7 515 0.6 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL	
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	AMOUNTS	MM
AUG	7	1551	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	7	1554	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	7	1557	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	7	16 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	7	16 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	7	16 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	7	16 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	7	1612	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	7	1615	BOOM MAST	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.06	M
AUG	7	1618	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.31	M
AUG	7	1621	BOOM MAST	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.45	M
AUG	7	1624	BOOM MAST	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0.42	M
AUG	7	1627	BOOM MAST	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.45	M
AUG	7	1630	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.21	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MW/HR																PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0									
			0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0							
AUG	7 1633	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16	M						
AUG	7 1636	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.18	M						
AUG	7 1639	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12	M						
AUG	7 1642	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09	M						
AUG	7 1645	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M						
AUG	7 1648	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M						
AUG	7 1651	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M						
AUG	7 1654	BOOM MAST	0	1	0	0	0	0	1	0	2	0	0	0	0	0	0	0.56	M						
AUG	7 1657	BOOM MAST	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0.73	M						
AUG	7 17 0	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.38	M						
AUG	7 17 3	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.34	M						
AUG	7 17 6	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.25	M						
AUG	7 17 9	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.22	M						
AUG	7 1712	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.21	M						

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		PROJECT: GATE YEAR: 1974													
		OCCURRENCE OF RATES BY CLASS IN MM/HR													
MONTH DAY TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0
		0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	TOTAL AMOUNTS MM
AUG 7 1715	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0
															0.14 M
AUG 7 1718	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0
															0.12 M
AUG 7 1721	BOOM MAST	0	0	0	1	0	1	0	0	0	0	0	0	0	0
															0.18 M
AUG 7 1724	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0
															0.16 M
AUG 7 1727	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0
															0.12 M
AUG 7 1730	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0
															0.01 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 7 1551 TO	AUG 7 1745	6.2 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0 <1.5 <2.1 <3.0 <4.3 <5.1 <8.7 <12.4 <18.0 <25.0 <36.0 <51.0 <73.0 <105.0 >																TOTAL	
		0.2	1.0	1.5	2.1	3.0	4.3	5.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		AMOUNTS	MM
AUG 8 845	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0.24 0.29	
AUG 8 848	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	2 1	1 0	2 0	1 5	0 0	0 1	0 0	0 0	1.20 1.52	
AUG 8 851	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.25 0.09	
AUG 8 854	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.09	
AUG 8 857	BOOM MAST	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	1 1	1 0	3 1	1 1	1 1	0 2	0 0	0 0	1.29 1.24	
AUG 8 9 0	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	2 0	1 0	2 0	0 0	0 0	0 0	0 0	0 0	0.95 0.11	
AUG 8 9 3	BOOM MAST	1 0	0 0	0 0	0 1	0 0	0 0	0 0	0 1	0 0	2 0	2 0	2 0	0 0	0 0	0 0	0 0	1.37 0.26	
AUG 8 9 6	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.01	
AUG 8 9 9	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.0	
AUG 8 912	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.0	
AUG 8 915	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.0	
AUG 8 918	BOOM MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.0	

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME 300M MAST
AUG 8 845 TO AUG 8 921 5.6 MM 3.6 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0					
AUG	8	11 6	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.05			
AUG	8	11 9	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.05			
AUG	8	11 12	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.05			
AUG	8	11 15	BOOM MAST	0 0	1 1	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.07			
AUG	8	11 18	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.15			
AUG	8	11 21	BOOM MAST	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.22			
AUG	8	11 24	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.29 0.72			
AUG	8	11 27	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.21 0.49			

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 8 11 6 TO AUG 8 11 27 8 11 45 1.0 MM 1.8 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)			SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM
AUG	8	12 9	ROOM MAST	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0.21 M
AUG	8	1212	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1215	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1218	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1221	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1224	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1227	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1230	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1233	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1236	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1239	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1242	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1245	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1248	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
AUG	8 1251	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8 1254	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8 1257	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8 13 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8 13 3	BOOM MAST	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0.24 M
AUG	8 13 6	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
AUG	8 13 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
AUG	8 1312	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
AUG	8 1315	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
AUG	8 1318	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M
AUG	8 1321	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M
AUG	8 1324	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.13 M
AUG	8 1327	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M
AUG	8 1330	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.17 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM				
AUG	8	1333	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M				
AUG	8	1336	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.11 M				
AUG	8	1339	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.16 M				
AUG	8	1342	BOOM MAST	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0.29 M				
AUG	8	1345	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.25 M				
AUG	8	1348	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.29 M				
AUG	8	1351	BOOM MAST	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0.39 M				
AUG	8	1354	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.17 M				
AUG	8	1357	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.18 M				
AUG	8	14 0	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.11 M				
AUG	8	14 3	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09 M				
AUG	8	14 6	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.07 M				
AUG	8	14 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
AUG	8	1412	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR												PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM		
AUG	8	1415	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M		
AUG	8	1418	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M		
AUG	8	1421	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M		
AUG	8	1424	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M		
AUG	8	1427	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M		
AUG	8	1430	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M		
AUG	8	1433	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0.12 M		
AUG	8	1436	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.14 M		
AUG	8	1439	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.11 M		
AUG	8	1442	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.17 M		
AUG	8	1445	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0.09 M		
AUG	8	1448	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		
AUG	8	1451	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		
AUG	8	1454	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL AMOUNTS MM
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
AUG	8	1457	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG	8	15 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG	8	15 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG	8	15 6	BOOM MAST	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0.01 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 8 12 9 TO	AUG 8 1515	5.0 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974	
MONTH DAY TIME(Z)			SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM					
AUG	8 1533	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M					
AUG	8 1536	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M					
AUG	8 1539	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M					
AUG	8 1542	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M					
AUG	8 1545	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M					
AUG	8 1548	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M					
AUG	8 1551	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M					
AUG	8 1554	800M MAST	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0.37 M					
AUG	8 1557	800M MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.33 M					
AUG	8 16 0	800M MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.24 M					
AUG	8 16 3	800M MAST	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0.42 M					
AUG	8 16 6	800M MAST	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.26 M					
AUG	8 16 9	800M MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M					
AUG	8 1612	800M MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.14 M					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		
AUG	8	1615	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.20 M
AUG	8	1618	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.20 M
AUG	8	1621	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M
AUG	8	1624	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1627	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1630	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1633	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1636	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1639	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1642	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1645	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1648	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1651	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8	1654	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0		
AUG	8 1657	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8 17 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8 17 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8 17 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8 17 9	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
AUG	8 1712	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
AUG	8 1715	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
AUG	8 1718	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
AUG	8 1721	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
AUG	8 1724	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
AUG	8 1727	BOOM MAST	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.21 M
AUG	8 1730	BOOM MAST	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0.22 M
AUG	8 1733	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
AUG	8 1736	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM	
AUG	8 1739	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M
AUG	8 1742	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M
AUG	8 1745	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
AUG	8 1748	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
AUG	8 1751	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
AUG	8 1754	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
AUG	8 1757	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME 300M MAST
AUG 8 1533 TO AUG 8 1815 4.0 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>	TOTAL AMOUNTS MM				
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0			
AUG	10	9 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	10	8 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>			
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0			
AUG	10	842	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	10	845	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	10	848	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	10	851	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	10	854	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	10	857	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
AUG	10	9 0	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M
AUG	10	9 3	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11	M
AUG	10	9 6	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.12	M
AUG	10	9 9	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.13	M
AUG	10	912	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10	M
AUG	10	915	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10	M
AUG	10	918	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.12	M
AUG	10	921	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.13	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	
AUG	10 924	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14 M
AUG	10 927	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.16 M
AUG	10 930	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.21 M
AUG	10 933	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M
AUG	10 936	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.17 M
AUG	10 939	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.19 M
AUG	10 942	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.21 M
AUG	10 945	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.23 M
AUG	10 948	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M
AUG	10 951	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M
AUG	10 954	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M
AUG	10 957	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M
AUG	10 10 0	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.21 M
AUG	10 10 3	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.21 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>105.0	TOTAL AMOUNTS MM				
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0					
AUG	10	10 6	BOOM MAST	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0.31 M				
AUG	10	10 9	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.27 M				
AUG	10	10 12	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0.11 M				
AUG	10	10 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
AUG	10	10 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
AUG	10	10 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
AUG	10	10 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
AUG	10	10 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
AUG	10	10 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
AUG	10	10 33	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09 M				
AUG	10	10 36	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M				
AUG	10	10 39	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.17 M				
AUG	10	10 42	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.18 M				
AUG	10	10 45	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.22 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		PROJECT: GATE														YEAR: 1974	
		OCCURRENCE OF RATES BY CLASS IN MM/HR															
MONTH DAY TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>
		0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	TOTAL AMOUNTS MM
AUG 10 1048	BOOM MAST	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.35 M
AUG 10 1051	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.30 M
AUG 10 1054	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.32 M
AUG 10 1057	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.29 M
AUG 10 11 0	BOOM MAST	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0.56 M
AUG 10 11 3	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.37 M
AUG 10 11 6	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.19 M
AUG 10 11 9	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.14 M
AUG 10 1112	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13 M
AUG 10 1115	BOOM MAST	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.26 M
AUG 10 1118	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.15 M
AUG 10 1121	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.09 M
AUG 10 1124	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
AUG 10 1127	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 10 8 0 TO	AUG 10 1139	8.8 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>				
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0				
AUG	12	22 0	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.14 M		
AUG	12	22 3	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M		
AUG	12	22 6	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M		
AUG	12	22 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M		
AUG	12	22 12	BOOM MAST	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.12 M		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 12 22.0 TO	AUG 12 2236	0.6 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0											>				TOTAL AMOUNTS MM
		0.2	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	
AUG 12 2345	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
AUG 12 2348	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
AUG 12 2351	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
AUG 12 2354	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
AUG 12 2357	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 13 0 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 13 0 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 13 0 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 13 0 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 13 0 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 13 0 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 13 0 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 12 2345 TO	AUG 13 036	0.4 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)			SENSOR		<1.0 0.2															>															TOTAL AMOUNTS MM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					<1.5 1.0					<2.1 1.5					<3.0 2.1					<4.3 3.0					<6.1 4.3					<8.7 6.1					<12.4 8.7					<18.0 12.4					<25.0 18.0					<36.0 25.0					<51.0 36.0					<73.0 51.0					<105.0 73.0					> 105.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
AUG	13	2 0	BOOM MAST		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 13 2 0 TO	AUG 13 221	2.4 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MW/HR													PROJECT: GATE			YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	TOTAL AMOUNTS MM	
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0
AUG	13	2248	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M	
AUG	13	2251	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M	
AUG	13	2254	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M	
AUG	13	2257	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
AUG	13	23 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
AUG	13	23 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
AUG	13	23 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
AUG	13	23 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
AUG	13	2312	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
AUG	13	2315	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
AUG	13	2318	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
AUG	13	2321	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
AUG	13	2324	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
AUG	13	2327	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974
MONTH	DAY TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM		
			0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0			
AUG	13 2330	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
AUG	13 2333	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
AUG	13 2336	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
AUG	13 2339	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
AUG	13 2342	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
AUG	13 2345	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
AUG	13 2348	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
AUG	13 2351	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
AUG	13 2354	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M		
AUG	13 2357	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M		
AUG	14 0 0	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M		
AUG	14 0 3	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 13 2248 TO AUG 14 021 0.6 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		PROJECT: GATE														YEAR: 1974	
		OCCURRENCE OF RATES BY CLASS IN MM/HR															
MONTH DAY TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL
		0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	AMOUNTS MM
AUG 14 19 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
AUG 14 19 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
AUG 14 19 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
AUG 14 19 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
AUG 14 19 15	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.06 M
AUG 14 19 18	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M
AUG 14 19 21	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M
AUG 14 19 24	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
AUG 14 19 27	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
AUG 14 19 30	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	MONTH DAY TIME	MAST
	AUG 14 19 3 TO	AUG 14 19 54	0.6 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		PROJECT: GATE YEAR: 1974													
		OCCURRENCE OF RATES BY CLASS IN MM/HR													
MONTH DAY TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0
		0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	TOTAL AMOUNTS MM
AUG 15 1530	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 15 1533	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 15 1536	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 15 1539	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 15 1542	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 15 1545	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 15 1548	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
AUG 15 1551	ROOM MAST	1	0	0	0	1	0	1	0	0	1	0	0	0	0.42 M
AUG 15 1554	ROOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0.17 M
AUG 15 1557	ROOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0.13 M
AUG 15 16 0	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0.08 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD AUG 15 1530 TO AUG 15 1624 ROOM MAST

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM			
AUG	17	16 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 42	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
AUG	17	16 45	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE					YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0							
AUG	17	1648	BOOM MAST	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13 M				
AUG	17	1651	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12 M				
AUG	17	1654	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
AUG	17	1657	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
AUG	17	17 0	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
AUG	17	1918	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
AUG	17	1921	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
AUG	17	1924	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
AUG	17	1927	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
AUG	17	1930	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12 M				
AUG	17	1933	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.15 M				
AUG	17	1936	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.22 M				
AUG	17	1939	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.29 M				
AUG	17	1942	BOOM MAST	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0.28 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974	
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM				
AUG	17 1945	BOOM MAST	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.35 M				
AUG	17 1948	BOOM MAST	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.47 M				
AUG	17 1951	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.43 M				
AUG	17 1954	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.40 M				
AUG	17 1957	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.36 M				
AUG	17 20 0	BOOM MAST	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.37 M				
AUG	17 20 3	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.36 M				
AUG	17 20 6	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M				
AUG	17 20 9	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15 M				
AUG	17 20 12	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.13 M				
AUG	17 20 15	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10 M				
AUG	17 20 18	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M				
AUG	17 20 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				
AUG	17 20 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: GILLISS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR																TOTAL AMOUNTS MM
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0			
AUG 17 2027	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M	
AUG 17 2030	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M	
AUG 17 2033	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M	
AUG 17 2036	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN 80TH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	800M	MAST
	AUG 17 16 6 TO	AUG 17 21 9	5.6 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM					
JUN	29	230	BOOM MAST	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.00					
JUN	29	233	BOOM MAST	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.00					
JUN	29	236	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.01					
JUN	29	239	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.01					
JUN	29	242	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01					
JUN	29	245	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	248	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	251	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	254	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	257	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	3 0	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	3 3	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	3 6	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	3 9	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE		YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>	TOTAL AMOUNTS MM		
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0	
JUN	29	312	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	315	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	318	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	321	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	324	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	327	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	330	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	333	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	336	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	339	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	342	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		
JUN	29	345	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03		
JUN	29	348	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04		
JUN	29	351	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM						
JUN	29	354	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.02						
JUN	29	357	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.02						
JUN	29	4 0	800M MAST	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.06						
JUN	29	4 3	800M MAST	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.06						
JUN	29	4 6	800M MAST	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.06						
JUN	29	4 9	800M MAST	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.03						
JUN	29	4 12	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01						
JUN	29	4 15	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01						
JUN	29	4 18	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01						
JUN	29	4 21	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01						
JUN	29	4 24	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01						
JUN	29	4 27	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01						
JUN	29	4 30	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01						
JUN	29	4 33	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01						

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM					
JUN	29	436	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01					
JUN	29	439	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01					
JUN	29	442	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01					
JUN	29	445	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01					
JUN	29	448	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01					
JUN	29	451	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01					
JUN	29	454	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01					
JUN	29	457	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01					
JUN	29	5 0	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01					
JUN	29	5 3	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	5 6	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	5 9	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	512	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUN	29	515	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL	
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		AMOUNT'S MM	
JUN	29	518	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
JUN	29	521	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
JUN	29	524	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
JUN	29	527	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
JUN	29	530	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
JUN	29	533	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
JUN	29	536	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
JUN	29	539	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
JUN	29	742	BOOM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0.00
			MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
JUN	29	745	BOOM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0.00
			MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
JUN	29	748	BOOM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0.00
			MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
JUN	29	751	BOOM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0.00
			MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
JUN	29	754	BOOM	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.00
			MAST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00
JUN	29	757	BOOM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.03
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.03

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 12.4	<18.0 25.0	<25.0 36.0	<36.0 51.0	<51.0 73.0	<73.0 105.0	> 105.0	TOTAL AMOUNTS MM						
JUN	29	8 0	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04						
JUN	29	8 3	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04						
JUN	29	8 6	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04						
JUN	29	8 9	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04						
JUN	29	8 12	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.05						
JUN	29	8 15	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.05						
JUN	29	8 18	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.05						
JUN	29	8 21	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.05						
JUN	29	8 24	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03						
JUN	29	8 27	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03						
JUN	29	8 30	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03						
JUN	29	8 33	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03						
JUN	29	8 36	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03						
JUN	29	8 39	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03						

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
JUN	29 842	BOOM MAST	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.04
JUN	29 845	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.06
JUN	29 848	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.06
JUN	29 851	BOOM MAST	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.06
JUN	29 854	BOOM MAST	0 0	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.09
JUN	29 857	BOOM MAST	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.09
JUN	29 9 0	BOOM MAST	0 0	0 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.10
JUN	29 9 3	BOOM MAST	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.11
JUN	29 9 6	BOOM MAST	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.11
JUN	29 9 9	BOOM MAST	0 0	0 0	1 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.12
JUN	29 912	BOOM MAST	0 0	0 0	1 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.16
JUN	29 915	BOOM MAST	0 0	0 0	1 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.13
JUN	29 918	BOOM MAST	0 0	0 0	1 0	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.10 0.14
JUN	29 921	BOOM MAST	0 0	0 0	0 0	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.15

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM	
JUN	29	924	BOOM MAST	0 0	1 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.13	
JUN	29	927	BOOM MAST	0 0	1 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.11	
JUN	29	930	BOOM MAST	0 0	1 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.10	
JUN	29	933	BOOM MAST	0 0	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.09	
JUN	29	936	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.07	
JUN	29	939	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.07	
JUN	29	942	BOOM MAST	1 0	1 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.10	
JUN	29	945	BOOM MAST	1 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.11	
JUN	29	948	BOOM MAST	1 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.03	
JUN	29	951	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01	
JUN	29	954	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01	
JUN	29	957	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01	
JUN	29	10 0	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01	
JUN	29	10 3	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE		YEAR: 1974
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM		
JUN	29	10 6	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01		
JUN	29	10 9	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01		
JUN	29	10 12	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01		
JUN	29	10 15	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01		
JUN	29	10 18	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.01		
JUN	29	10 21	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.01		
JUN	29	10 24	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.01		
JUN	29	10 27	BOOM MAST	1 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.06		
JUN	29	10 30	BOOM MAST	1 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.10		
JUN	29	10 33	BOOM MAST	1 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.10		
JUN	29	10 36	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.10		
JUN	29	10 39	BOOM MAST	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.09 0.14		
JUN	29	10 42	BOOM MAST	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.14 0.16		
JUN	29	10 45	BOOM MAST	0 0	0 1	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.08 0.15		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		PROJECT: GATE YEAR: 1974															
		OCCURRENCE OF RATES BY CLASS IN MM/HR															
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	TOTAL AMOUNTS MM
JUN	29 1048	800M MAST	0 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.08
JUN	29 1051	800M MAST	0 0	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.08
JUN	29 1054	800M MAST	0 1	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.06
JUN	29 1057	800M MAST	1 1	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.04
JUN	29 11 0	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.04
JUN	29 11 3	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.04
JUN	29 11 6	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.04
JUN	29 11 9	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.04
JUN	29 1112	800M MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.00
JUN	29 1115	800M MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0
JUN	29 1118	800M MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0
JUN	29 1121	800M MAST	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.0

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, 8JT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUN 28 2339 TO	JUN 29 1257	5.4 MM	5.8 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974	
MONTH DAY TIME(Z)			SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 73.0	> 105.0	TOTAL AMOUNTS MM		
JUN	30	1 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
JUN	30	1 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUN 30 1 3	JUN 30 342	M	0.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE			YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0	TOTAL AMOUNTS MM	
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	MM
JUL	1	3 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
JUL	1	3 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 MM	
JUL	1	3 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
JUL	1	3 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
JUL	1	3 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 MM	
JUL	1	3 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 MM	
JUL	1	3 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
JUL	1	3 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
JUL	1	3 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
JUL	1	3 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN 80TH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD				MONTH	DAY	TIME	MONTH	DAY	TIME	BOOM	MAST
JUL	1	3 6	TO	JUL	1	6 21	0.2	MM			M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
JUL	2 921	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 924	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 927	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 930	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 933	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 936	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 939	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 942	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 945	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 948	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 951	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 954	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 957	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 10 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL	
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	AMOUNTS	MM
JUL	2	10 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	10 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	10 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	10 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	10 15	BOOM MAST	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.23	M
JUL	2	10 18	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.15	M
JUL	2	10 21	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.15	M
JUL	2	10 24	BOOM MAST	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.24	M
JUL	2	10 27	BOOM MAST	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0.69	M
JUL	2	10 30	BOOM MAST	0	0	0	0	0	0	0	0	0	0	2	2	7	0	0	2.27	M
JUL	2	10 33	BOOM MAST	0	0	0	0	0	0	0	1	0	0	1	4	2	0	0	1.65	M
JUL	2	10 36	BOOM MAST	0	0	0	0	0	0	0	0	0	2	3	2	0	0	0	1.34	M
JUL	2	10 39	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.69	M
JUL	2	10 42	BOOM MAST	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0.66	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR												PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM		
JUL	2	1045	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.29 M		
JUL	2	1048	BOOM MAST	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.28 M		
JUL	2	1051	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.17 M		
JUL	2	1054	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.09 M		
JUL	2	1057	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09 M		
JUL	2	11 0	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.13 M		
JUL	2	11 3	BOOM MAST	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0.24 M		
JUL	2	11 6	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.32 M		
JUL	2	11 9	BOOM MAST	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0.47 M		
JUL	2	1112	BOOM MAST	0	0	0	0	0	1	0	0	1	0	4	0	0	0	1.11 M		
JUL	2	1115	BOOM MAST	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0.94 M		
JUL	2	1118	BOOM MAST	0	0	0	0	0	0	1	0	0	1	1	4	0	0	1.35 M		
JUL	2	1121	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.24 M		
JUL	2	1124	BOOM MAST	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0.34 M		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0						
JUL	2	1127	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0		0.50 M			
JUL	2	1130	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0		0.72 M			
JUL	2	1133	BOOM MAST	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0		0.70 M			
JUL	2	1136	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		0.09 M			
JUL	2	1139	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0		0.09 M			
JUL	2	1142	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		0.14 M			
JUL	2	1145	BOOM MAST	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0		0.19 M			
JUL	2	1148	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0		0.28 M			
JUL	2	1151	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		0.37 M			
JUL	2	1154	BOOM MAST	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		0.24 M			
JUL	2	1157	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		0.23 M			
JUL	2	12 0	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		0.29 M			
JUL	2	12 3	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0		0.35 M			
JUL	2	12 6	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0		0.40 M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>	105.0				
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0		73.0	105.0		
JUL	2	12 9	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.30	M		
JUL	2	1212	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.22	M		
JUL	2	1215	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.28	M		
JUL	2	1218	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.34	M		
JUL	2	1221	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.37	M		
JUL	2	1224	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.39	M		
JUL	2	1227	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.23	M		
JUL	2	1230	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16	M		
JUL	2	1233	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.08	M		
JUL	2	1236	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M		
JUL	2	1239	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M		
JUL	2	1242	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M		
JUL	2	1245	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
JUL	2	1248	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>105.0	TOTAL AMOUNTS MM			
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0		73.0		
JUL	2	1251	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2	1254	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2	1257	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2	13 0	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.10 M			
JUL	2	13 3	BOOM MAST	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0.16 M			
JUL	2	13 6	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.23 M			
JUL	2	13 9	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.15 M			
JUL	2	1312	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.08 M			
JUL	2	1315	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.08 M			
JUL	2	1318	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.06 M			
JUL	2	1321	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M			
JUL	2	1324	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M			
JUL	2	1327	BOOM MAST	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0.14 M			
JUL	2	1330	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12 M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0					
JUL	2 1333	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2 1336	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2 1339	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2 1342	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2 1345	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2 1348	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2 1351	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2 1354	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M			
JUL	2 1357	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M			
JUL	2 14 0	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.09 M			
JUL	2 14 3	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M			
JUL	2 14 6	BOOM MAST	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0.25 M			
JUL	2 14 9	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.22 M			
JUL	2 1412	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974
MONTH DAY TIME(Z)		SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM			
JUL	2 1415	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M			
JUL	2 1418	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16 M			
JUL	2 1421	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.19 M			
JUL	2 1424	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.15 M			
JUL	2 1427	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.14 M			
JUL	2 1430	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13 M			
JUL	2 1433	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M			
JUL	2 1436	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09 M			
JUL	2 1439	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M			
JUL	2 1442	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M			
JUL	2 1445	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M			
JUL	2 1448	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2 1451	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
JUL	2 1454	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	
JUL	2 1457	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	2 15 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	2 15 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
JUL	2 15 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
JUL	2 15 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 1512	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 1515	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 1518	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 1521	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 1524	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 1527	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 1530	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 1533	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL	2 1536	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL	
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	AMOUNTS MM
JUL 2 1539	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL 2 1542	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL 2 1545	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL 2 1548	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL 2 1551	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL 2 1554	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL 2 1557	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
JUL 2 16 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD JUL 2 921 TO JUL 2 1630 BOOM MAST

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0						
JUL	7 1236	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12	M			
JUL	7 1239	BOOM MAST	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0.59	M			
JUL	7 1242	BOOM MAST	0	0	0	0	0	0	0	0	0	1	1	5	3	1	0	2.17	M			
JUL	7 1245	BOOM MAST	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0.79	M			
JUL	7 1248	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.43	M			
JUL	7 1251	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.22	M			
JUL	7 1254	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.10	M			
JUL	7 1257	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M			
JUL	7 13 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M			
JUL	7 13 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M			
JUL	7 13 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M			
JUL	7 13 9	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M			
JUL	7 1312	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09	M			
JUL	7 1315	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08	M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM				
JUL	7	1318	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M				
JUL	7	1321	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M				
JUL	7	1324	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M				
JUL	7	1327	ROOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M				
JUL	7	1330	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1333	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1336	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1339	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1342	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1345	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1348	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1351	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1354	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1357	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0	TOTAL AMOUNTS MM		
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0			
JUL	7	14 0	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		
JUL	7	14 3	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10 M		
JUL	7	14 6	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.10 M		
JUL	7	14 9	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M		
JUL	7	14 12	BOOM MAST	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0.34 M		
JUL	7	14 15	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.15 M		
JUL	7	14 18	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M		
JUL	7	14 21	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M		
JUL	7	14 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	14 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	14 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	14 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	14 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	14 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM				
JUL	7	1442	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1445	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1448	BOOM MAST	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0.23 M				
JUL	7	1451	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
JUL	7	1454	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
JUL	7	1457	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
JUL	7	15 0	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.14 M				
JUL	7	15 3	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.07 M				
JUL	7	15 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	15 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1512	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1515	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1518	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	7	1521	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM		
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0				
JUL	7	1524	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	1527	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	1530	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	1533	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	1536	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	1539	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		
JUL	7	1542	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
JUL	7	1545	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
JUL	7	1548	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
JUL	7	1551	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
JUL	7	1554	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
JUL	7	1557	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
JUL	7	16 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
JUL	7	16 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	OAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM				
JUL	7	16 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M				
JUL	7	16 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M				
JUL	7	16 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M				
JUL	7	16 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M				
JUL	7	16 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M				
JUL	7	16 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M				
JUL	7	16 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M				
JUL	7	16 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M				
JUL	7	16 30	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0.07 M				
JUL	7	16 33	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.08 M				
JUL	7	16 36	BOOM MAST	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.14 M				
JUL	7	16 39	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.14 M				
JUL	7	16 42	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				
JUL	7	16 45	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2															> 105.0					TOTAL AMOUNTS MM
				<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>						
JUL	7	1648	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M		
JUL	7	1651	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		
JUL	7	1654	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		
JUL	7	1657	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		
JUL	7	17 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		
JUL	7	17 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		
JUL	7	17 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		
JUL	7	17 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		
JUL	7	1712	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUL 7 1236 TO	JUL 7 2012	8.4 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM		
JUL	8	845	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.06		
JUL	8	848	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.06		
JUL	8	851	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.06		
JUL	8	854	BOOM MAST	0	1	0	0	0	1	0	0	0	0	0	0	0	0	M 0.17		
JUL	8	857	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.10		
JUL	8	9 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.05		
JUL	8	9 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.05		
JUL	8	9 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.05		
JUL	8	9 9	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.07		
JUL	8	912	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.10		
JUL	8	915	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.09		
JUL	8	918	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.08		
JUL	8	921	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.08		
JUL	8	924	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.03		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 73.0	> 105.0					
JUL	8 927	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02		
JUL	8 930	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02		
JUL	8 933	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02		
JUL	8 936	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02		
JUL	8 939	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02		
JUL	8 942	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02		
JUL	8 945	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02		
JUL	8 948	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02		
JUL	8 951	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.04		
JUL	8 954	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.04		
JUL	8 957	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.04		
JUL	8 10 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.04		
JUL	8 10 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.04		
JUL	8 10 6	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M	0.13		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES 8Y CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM					
JUL	8	10 9	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09	M				
JUL	8	1012	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1015	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1018	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1021	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1024	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1027	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1030	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1033	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1036	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1039	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1042	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1045	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				
JUL	8	1048	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974	
MONTH DAY TIME(Z)		SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 73.0	> 105.0	TOTAL AMOUNTS	MM			
JUL	8 1051	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
JUL	8 1054	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
JUL	8 1057	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
JUL	8 11 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
JUL	8 11 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
JUL	8 11 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
JUL	8 11 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
JUL	8 1112	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
JUL	8 1115	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
JUL	8 1118	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
JUL	8 1121	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.09	M			
JUL	8 1124	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12	M			
JUL	8 1127	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.18	M			
JUL	8 1130	BOOM MAST	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0.45	M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	
JUL	8 1133	BOOM MAST	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0.74
JUL	8 1136	BOOM MAST	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0.73
JUL	8 1139	BOOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0.68
JUL	8 1142	BOOM MAST	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0.64
JUL	8 1145	BOOM MAST	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0.78
JUL	8 1148	BOOM MAST	0	0	0	0	0	0	0	0	1	0	5	1	0	0	0	1.39
JUL	8 1151	BOOM MAST	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	1.04
JUL	8 1154	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.56
JUL	8 1157	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.21
JUL	8 12 0	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.12
JUL	8 12 3	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13
JUL	8 12 6	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14
JUL	8 12 9	BOOM MAST	0	0	0	1	0	0	1	1	0	1	1	1	0	0	0	0.85
JUL	8 1212	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.36

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH DAY TIME(Z) SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM					
JUL	8 1215 BOOM MAST	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	M 0.30				
JUL	8 1218 BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	M 0.33				
JUL	8 1221 BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	M 0.29				
JUL	8 1224 BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.14				
JUL	8 1227 BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.07				
JUL	8 1230 BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.07				
JUL	8 1233 BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.12				
JUL	8 1236 BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	M 0.14				
JUL	8 1239 BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	M 0.16				
JUL	8 1242 BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.08				
JUL	8 1245 BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.08				
JUL	8 1248 BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	M 0.10				
JUL	8 1251 BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.12				
JUL	8 1254 BOOM MAST	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	M 0.37				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS

PROJECT: GATE YEAR: 1974

MONTH DAY TIME(Z)		OCCURRENCE OF RATES BY CLASS IN MM/HR																TOTAL	
		BY 3-MINUTE PERIODS																AMOUNTS MM	
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0			
JUL	8 1257	ROOM MAST	0	0	0	1	0	1	0	0	0	0	0	0	0	0	M	0.30	
JUL	8 13 0	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M	0.18	
JUL	8 13 3	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M	0.13	
JUL	8 13 6	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M	0.18	
JUL	8 13 9	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M	0.20	
JUL	8 1312	ROOM MAST	0	0	0	1	0	2	0	0	0	0	0	0	0	0	M	0.29	
JUL	8 1315	ROOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	M	0.28	
JUL	8 1318	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M	0.21	
JUL	8 1321	ROOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	M	0.12	
JUL	8 1324	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M	0.07	
JUL	8 1327	ROOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M	0.07	
JUL	8 1330	ROOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	M	0.03	
JUL	8 1333	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01	
JUL	8 1336	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM			
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0				
JUL	8	1339	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	1342	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	1345	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	1348	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	1351	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	1354	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	1357	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	14 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	14 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	14 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	14 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01			
JUL	8	1412	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.10			
JUL	8	1415	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.11			
JUL	8	1418	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.13			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM	
JUL	8 1421																M
	BOOM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.06	
	MAST																

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD
JUL 8 845 TO JUL 8 18 6 M MAST 16.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	>			
JUL	13 048	BOOM MAST	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.08
JUL	13 051	BOOM MAST	0 0	0 0	1 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.11 0.08
JUL	13 054	BOOM MAST	0 1	0 0	0 1	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.23 0.04
JUL	13 057	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.01
JUL	13 1 0	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01
JUL	13 1 3	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01
JUL	13 1 6	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01
JUL	13 1 9	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01
JUL	13 112	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01
JUL	13 115	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01
JUL	13 118	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01
JUL	13 121	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01
JUL	13 124	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01
JUL	13 127	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM						
JUL	13	130	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUL	13	133	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUL	13	136	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUL	13	139	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUL	13	142	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUL	13	145	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUL	13	148	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.01 0.01					
JUL	13	151	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3 0	0 0	0 0	0 0	0 0	0 0	0 0	0.50 0.02					
JUL	13	154	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.12 0.04					
JUL	13	157	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.04					
JUL	13	2 0	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.04					
JUL	13	2 3	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.04					
JUL	13	2 6	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.04					
JUL	13	2 9	ROOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.05					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE		YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>		
JUL	13	212	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.05
JUL	13	215	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.05
JUL	13	218	BOOM MAST	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.05
JUL	13	221	BOOM MAST	0 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.07
JUL	13	224	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.07 0.07
JUL	13	227	BOOM MAST	0 0	1 1	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.07
JUL	13	230	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.29 0.24
JUL	13	233	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.37 0.35
JUL	13	236	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 1	1 1	0 0	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.58 0.53
JUL	13	239	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	2 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.61 0.65
JUL	13	242	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.23
JUL	13	245	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.10
JUL	13	248	BOOM MAST	0 0	0 0	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.11
JUL	13	251	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.16

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE					YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM						
JUL	13	254	BOOM MAST	0 0	0 0	0 0	1 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.15						
JUL	13	257	BOOM MAST	0 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.09						
JUL	13	3 0	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.03						
JUL	13	3 3	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.03						
JUL	13	3 6	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.03						
JUL	13	3 9	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.03						
JUL	13	3 12	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.03						
JUL	13	3 15	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.03						
JUL	13	3 18	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.03						
JUL	13	3 21	BOOM MAST	0 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.09						
JUL	13	3 24	BOOM MAST	0 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.12						
JUL	13	3 27	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02						
JUL	13	3 30	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02						
JUL	13	3 33	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02						

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>					
JUL	13	336	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02			
JUL	13	339	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02			
JUL	13	342	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02			
JUL	13	345	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02			
JUL	13	348	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02			
JUL	13	351	BOOM MAST	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.05			
JUL	13	354	BOOM MAST	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.06			
JUL	13	357	BOOM MAST	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.06			
JUL	13	4 0	BOOM MAST	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.04			
JUL	13	4 3	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02			
JUL	13	4 6	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02			
JUL	13	4 9	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02			
JUL	13	412	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02			
JUL	13	415	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE			YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM				
JUL	13	418	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02				
JUL	13	421	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02				
JUL	13	424	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02				
JUL	13	427	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02				
JUL	13	430	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02				
JUL	13	433	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02				
JUL	13	436	BOOM MAST	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.02				
JUL	13	439	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.08				
JUL	13	442	BOOM MAST	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.08				
JUL	13	445	BOOM MAST	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.06				
JUL	13	448	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.04				
JUL	13	451	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.04				
JUL	13	454	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.04				
JUL	13	457	BOOM MAST	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0 0.04				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974			
MON-H DAY TIME(Z)			SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	>	TOTAL AMOUNTS MM		
JUL	13	5 0	BOOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
			MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH	DAY	TIME	BOOM	MAST
	JUL	13	048 TO JUL 13 7 0	3.8 MM	5.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS	MONTH DAY TIME(Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
			<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0			
	JUL 14 048	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0			0.18 0.01
	JUL 14 051	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0			0.23 0.01
	JUL 14 2 6	BOOM MAST	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0			0.01 0.01
	JUL 14 2 9	BOOM MAST	0 0	0 0	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0			0.11 0.07
	JUL 14 212	BOOM MAST	0 0	0 0	0 1	1 0	0 0	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0			0.22 0.08
	JUL 14 215	BOOM MAST	0 0	0 0	0 1	0 0	0 1	0 0	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0			0.36 0.13
	JUL 14 218	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	0 1	0 2	0 0	0 0	0 0	0 0	0 0	0 0			0.42 0.24
	JUL 14 221	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0			0.31 0.22
	JUL 14 224	BOOM MAST	0 0	0 0	0 0	0 0	0 1	0 0	0 1	0 0	0 2	0 0	0 0	0 0	0 0	0 0			0.47 0.35
	JUL 14 227	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0			0.45 0.39
	JUL 14 230	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 3	1 0	0 0	0 0	0 0	0 0			0.77 0.71
	JUL 14 233	BOOM MAST	0 0	0 0	0 0	0 0	1 0	0 1	0 0	0 0	0 1	0 0	0 0	0 0	0 0	0 0			0.39 0.40
	JUL 14 236	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0			0.18 0.15
	JUL 14 239	BOOM MAST	0 0	0 0	0 0	0 0	1 1	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0			0.31 0.24

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM			
JUL	14	242	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 2	1 1	1 0	0 0	0 0	0 0	0.91 0.76			
JUL	14	245	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 2	0 0	0 0	0 0	0 0	0 0	0.69 0.63			
JUL	14	248	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 2	2 0	0 0	0 0	0 0	0 0	0.82 0.68			
JUL	14	251	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 2	1 0	0 0	0 0	0 0	0 0	0.75 0.69			
JUL	14	254	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0.48 0.41			
JUL	14	257	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	0 3	1 0	0 0	0 0	0 0	0 0	0.87 0.67			
JUL	14	3 0	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 2	0 1	1 0	0 0	0 0	0 0	0 0	0.66 0.63			
JUL	14	3 3	BOOM MAST	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 2	0 0	0 0	0 0	0 0	0 0	0 0	0.46 0.42			
JUL	14	3 6	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.17 0.15			
JUL	14	3 9	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04			
JUL	14	312	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04			
JUL	14	315	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04			
JUL	14	318	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04			
JUL	14	321	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM			
JUL	14	324	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03			
JUL	14	327	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03			
JUL	14	330	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03			
JUL	14	333	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03			
JUL	14	336	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.03 0.03			
JUL	14	339	BOOM MAST	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.05 0.04			
JUL	14	342	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.05			
JUL	14	345	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.05			
JUL	14	348	BOOM MAST	0 0	1 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.05			
JUL	14	351	BOOM MAST	0 1	0 1	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.12 0.04			
JUL	14	354	BOOM MAST	0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.16 0.03			
JUL	14	357	BOOM MAST	1 1	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.03			
JUL	14	4 0	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03			
JUL	14	4 3	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		PROJECT: GATE																YEAR: 1974	
		OCCURRENCE OF RATES BY CLASS IN MM/HR																	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	>	
				TOTAL														AMOUNTS MM	
JUL	14	4 6	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03
JUL	14	4 9	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.03
JUL	14	4 12	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.01
JUL	14	4 15	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.01
JUL	14	4 18	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.01
JUL	14	4 21	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.01
JUL	14	4 24	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.04 0.01
JUL	14	4 27	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01
JUL	14	4 30	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01
JUL	14	4 33	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01
JUL	14	4 36	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01
JUL	14	4 39	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01
JUL	14	4 42	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01
JUL	14	4 45	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		PROJECT: GATE YEAR: 1974													
		OCCURRENCE OF RATES BY CLASS IN MM/HR													
MONTH DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0
		BOOM MAST	BOOM MAST	BOOM MAST	BOOM MAST	BOOM MAST	BOOM MAST	BOOM MAST	BOOM MAST	BOOM MAST	BOOM MAST	BOOM MAST	BOOM MAST	BOOM MAST	TOTAL AMOUNTS MM
JUL 14 448	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0.02 0.01
JUL 14 451	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0.02 0.01
JUL 14 454	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0.02 0.01
JUL 14 457	BOOM MAST	1 1	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0.03 0.01
JUL 14 5 0	BOOM MAST	0 1	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0.16 0.10
JUL 14 5 3	BOOM MAST	0 0	0 0	0 0	0 1	0 1	0 1	1 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0.31 0.23
JUL 14 5 6	BOOM MAST	0 0	0 0	0 0	0 0	0 0	0 1	0 2	1 1	0 0	0 0	0 0	0 0	0 0	0 0.59 0.43
JUL 14 5 9	BOOM MAST	0 0	0 0	0 1	0 1	0 0	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0.27 0.29
JUL 14 512	BOOM MAST	0 0	0 0	0 1	0 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0.24 0.14
JUL 14 515	BOOM MAST	0 0	0 0	0 1	0 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0.02 0.01

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUL 13 2348 TO	JUL 14 6 0	13.8 MM	10.6 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			PROJECT: GATE													YEAR: 1974			
			OCCURRENCE OF RATES BY CLASS IN MM/HR																
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>	TOTAL AMOUNTS MM	
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0
AUG	6	1733	BOOM MAST	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0.28 M
AUG	6	1736	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.48 M
AUG	6	1739	BOOM MAST	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.23 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 6 1733 TO AUG 6 1754 1.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	TOTAL AMOUNTS MM	
AUG	8 16 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
AUG	8 16 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
AUG	8 16 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
AUG	8 16 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
AUG	8 16 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
AUG	8 16 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
AUG	8 16 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
AUG	8 16 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
AUG	8 16 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
AUG	8 16 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
AUG	8 16 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
AUG	8 16 33	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
AUG	8 16 36	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12
AUG	8 16 39	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974	
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
AUG	8 1642	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09
AUG	8 1645	BOOM MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.10
AUG	8 1648	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.17
AUG	8 1651	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14
AUG	8 1654	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14
AUG	8 1657	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 8 16 0 TO AUG 8 1727 MM 1.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		PROJECT: GATE YEAR: 1974													
		OCCURRENCE OF RATES BY CLASS IN MM/HR													
MONTH DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0
AUG 12 1848	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0
															0.11 M
AUG 12 1851	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0
															0.10 M
AUG 12 1854	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0
															0.05 M
AUG 12 1857	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0
															0.05 M
AUG 12 19 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0
															0.05 M
AUG 12 19 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0
															0.05 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 12 1848 TO	AUG 13 0 0	M	0.6 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM				
AUG	18	748	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	M 0.20				
AUG	18	751	BOOM MAST	0	0	1	0	1	0	0	1	0	0	0	0	0	0	M 0.25				
AUG	18	754	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.08				
AUG	18	757	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.08				
AUG	18	8 0	BOOM MAST	0	1	1	0	0	0	1	1	0	0	0	0	0	0	M 0.41				
AUG	18	8 3	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.06				
AUG	18	8 6	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.06				
AUG	18	8 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.06				
AUG	18	812	BOOM MAST	0	1	0	0	0	0	1	0	0	0	0	0	0	0	M 0.22				
AUG	18	815	BOOM MAST	0	0	0	0	0	0	0	0	2	2	1	0	0	0	M 0.98				
AUG	18	818	BOOM MAST	0	0	0	0	0	0	0	0	3	1	1	0	0	0	M 0.91				
AUG	18	821	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	M 0.45				
AUG	18	824	BOOM MAST	0	0	0	0	0	0	1	2	0	0	0	0	0	0	M 0.52				
AUG	18	827	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	M 0.25				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	> 105.0	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	
AUG	18	830	800M MAST	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.14
AUG	18	833	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.10
AUG	18	836	800M MAST	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.15
AUG	18	839	800M MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18
AUG	18	842	800M MAST	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0.14
AUG	18	845	800M MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.23
AUG	18	848	800M MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.35
AUG	18	851	800M MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.32
AUG	18	854	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.13
AUG	18	857	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06
AUG	18	9 0	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06
AUG	18	9 3	800M MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.08
AUG	18	9 6	800M MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.12
AUG	18	9 9	800M MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0.07

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH DAY TIME(Z) SENSOR			<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 73.0	> 105.0	TOTAL AMOUNTS MM				
AUG	18	912	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.05				
AUG	18	915	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.05				
AUG	18	918	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M 0.05				
AUG	18	921	800M MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	M 0.08				
AUG	18	924	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.09				
AUG	18	927	800M MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	M 0.07				
AUG	18	930	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.04				
AUG	18	933	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.04				
AUG	18	936	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.04				
AUG	18	939	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.04				
AUG	18	942	800M MAST	1	0	0	0	1	1	0	0	0	0	0	0	0	0	M 0.22				
AUG	18	945	800M MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	M 0.19				
AUG	18	948	800M MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	M 0.18				
AUG	18	951	800M MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	M 0.05				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>	TOTAL AMOUNTS MM				
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0			
AUG	18	954	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03				
AUG	18	957	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03				
AUG	18	10 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03				
AUG	18	10 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03				
AUG	18	10 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03				
AUG	18	10 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				
AUG	18	10 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				
AUG	18	10 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				
AUG	18	10 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				
AUG	18	10 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				
AUG	18	10 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				
AUG	18	10 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				
AUG	18	10 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				
AUG	18	10 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0						
AUG	18	1036	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
AUG	18	1039	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M			
AUG	18	1042	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	1045	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	1048	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	1051	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	1054	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	1057	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	11 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	11 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	11 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	11 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	1112	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			
AUG	18	1115	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0 0.2														> 105.0														TOTAL AMOUNTS MM
		<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	> 105.0														
AUG 18 1118	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M									
AUG 18 1121	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M								
AUG 18 1124	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M								
AUG 18 1127	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M								

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 18 748 TO	AUG 18 12 0	M	8.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH	OAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM			
AUG	30	130	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	133	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	136	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	139	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	142	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	145	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	148	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	151	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	154	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	157	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	2 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	2 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.02			
AUG	30	2 6	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	M 0.03			
AUG	30	2 9	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	M 0.13			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM						
AUG	30	212	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.08					
AUG	30	215	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
AUG	30	218	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
AUG	30	221	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
AUG	30	224	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
AUG	30	227	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
AUG	30	230	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03					
AUG	30	233	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
AUG	30	236	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
AUG	30	239	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
AUG	30	242	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
AUG	30	245	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
AUG	30	248	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					
AUG	30	251	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974	
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	TOTAL AMOUNTS MM
AUG	30 254	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 257	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 3 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 3 3	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 3 6	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
AUG	30 3 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
AUG	30 3 12	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
AUG	30 3 15	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
AUG	30 3 18	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
AUG	30 3 21	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
AUG	30 3 24	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
AUG	30 3 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
AUG	30 3 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
AUG	30 3 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.1 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM		
AUG	30	336	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04		
AUG	30	339	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03		
AUG	30	342	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
AUG	30	345	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
AUG	30	348	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
AUG	30	351	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
AUG	30	354	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
AUG	30	357	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
AUG	30	4 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
AUG	30	4 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		
AUG	30	4 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 30 130 TO	AUG 30 451	M	1.6 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	TOTAL AMOUNTS MM
SEP	2	1730	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	2	1733	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
SEP	2	1736	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
SEP	2	1739	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
SEP	2	1742	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
SEP	2	1745	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
SEP	2	1748	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
SEP	2	1751	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
SEP	2	1754	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
SEP	2	1757	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08
SEP	2	18 0	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08
SEP	2	18 3	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08
SEP	2	18 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	2	18 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH DAY TIME(Z) SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM			
SEP	2 1812	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	2 1815	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	2 1818	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	2 1821	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	2 1824	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	2 1827	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	2 1830	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M	
SEP	2 1833	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M	

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD		MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
		SEP 2 16 0 TO	SEP 2 1930	M	1.2 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>						
SEP	3	1739	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M	0.19				
SEP	3	1742	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	M	0.06				
SEP	3	1745	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.05				
SEP	3	1748	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.05				
SEP	3	1751	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.05				
SEP	3	1754	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.09				
SEP	3	1757	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.09				
SEP	3	18 0	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.04				
SEP	3	18 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02				
SEP	3	18 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02				
SEP	3	18 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02				
SEP	3	1812	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02				
SEP	3	1815	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02				
SEP	3	1818	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.02				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		
SEP	3	1821	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
SEP	3	1824	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.03
SEP	3	1827	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.11
SEP	3	1830	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08
SEP	3	1833	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	3	1836	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	3	1839	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	3	1842	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	3	1845	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	3	1848	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	3	1851	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	3	1854	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	3	1857	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	3	19 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	TOTAL AMOUNTS	MM
SEP	3 19 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	3 19 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	3 19 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	3 19 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	3 19 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	3 19 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	3 19 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	3 19 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	3 19 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	3 19 30	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11	M
SEP	3 19 33	BOOM MAST	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.27	M
SEP	3 19 36	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.17	M
SEP	3 19 39	BOOM MAST	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0.25	M
SEP	3 19 42	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: DALLAS

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
		0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
SEP 3 1945	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.11
SEP 3 1948	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14
SEP 3 1951	BOOM MAST	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0.28
SEP 3 1954	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.15
SEP 3 1957	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.02

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	SEP 3 1739	TO	SEP 3 2345	M	2.8 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974
MONTH DAY TIME (Z)		SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM
JUL	2 12 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	2 12 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	2 12 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	2 12 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	2 12 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	2 12 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	2 12 18	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06
JUL	2 12 21	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
JUL	2 12 24	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
JUL	2 12 27	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL	2 12 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
JUL	2 12 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
JUL	2 12 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
JUL	2 12 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
MONTH	OAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 73.0			
JUL	2 1242	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0			M 0.05
JUL	2 1245	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0			M 0.06
JUL	2 1248	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0			M 0.06
JUL	2 1251	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0			M 0.09
JUL	2 1254	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0			M 0.13
JUL	2 1257	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0			M 0.16
JUL	2 13 0	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0			M 0.23
JUL	2 13 3	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0			M 0.25
JUL	2 13 6	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0			M 0.20
JUL	2 13 9	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0			M 0.16
JUL	2 1312	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0			M 0.12
JUL	2 1315	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0			M 0.12
JUL	2 1318	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0			M 0.12
JUL	2 1321	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0			M 0.06

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>					
JUL	2	1324	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1327	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1330	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1333	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1336	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1339	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1342	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1345	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1348	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1351	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1354	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	1357	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	14 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				
JUL	2	14 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH DAY TIME(Z) SENSOR			<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM				
JUL	2 14 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 42	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				
JUL	2 14 45	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	> 105.0	TOTAL AMOUNTS MM
JUL	2	1448	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	2	1451	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	2	1454	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	2	1457	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	2	15 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	2	15 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	2	15 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	2	15 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	2	1512	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	2	1615	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	2	1618	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	2	1621	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	2	1624	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	2	1627	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL	
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	>	AMOUNTS	MM
JUL	2	1630	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	1633	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	1636	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	1639	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	1642	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	1645	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	1648	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	1651	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	1654	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	1657	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	17 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	17 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	17 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
JUL	2	17 9	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.02	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR												PROJECT: GATE		YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
JUL	2 1712	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.15
JUL	2 1715	BOOM MAST	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	3.29
JUL	2 1718	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	3.37
JUL	2 1721	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.44
JUL	2 1724	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.36
JUL	2 1727	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.25
JUL	2 1730	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.18
JUL	2 1733	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.22
JUL	2 1736	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.13

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD			MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
JUL	2 12 0 TO	JUL	2 18 0	MM	5.8	MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974	
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	TOTAL AMOUNTS MM
JUL	3 1730	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	3 1733	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	3 1736	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	3 1739	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	3 1742	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	3 1745	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	3 1748	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	3 1751	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	3 1754	BOOM MAST	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.03
JUL	3 1757	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20
JUL	3 18 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL	3 18 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL	3 18 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05
JUL	3 18 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD		MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
JUL	3 1730 TO	JUL	3 1830	M	0.6 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0					
JUL	4	1130	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
JUL	4	1133	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
JUL	4	1136	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
JUL	4	1139	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
JUL	4	1142	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
JUL	4	1145	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
JUL	4	1148	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
JUL	4	1151	BOOM MAST	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.37	M		
JUL	4	1154	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.17	M		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUL 4 1130 TO	JUL 4 1218	M	1.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974
MONTH DAY TIME(Z) SENSOR			<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM					
JUL	4 20 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					
JUL	4 20 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01					

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE	YEAR: 1974	
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM
JUL	4	2042	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01
JUL	4	2045	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	M 0.01
JUL	4	2048	BOOM MAST	1	0	0	0	0	0	0	0	1	0	0	0	0	0	M 0.20

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	JUL 4 20 0	JUL 4 21 0	M	0.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH DAY TIME(Z)		SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0							
JUL	8 1530	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M	0.10				
JUL	8 1533	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M	0.10				
JUL	8 1536	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 1539	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 1542	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 1545	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 1548	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 1551	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 1554	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 1557	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 16 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 16 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 16 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				
JUL	8 16 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	0.01				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		
JUL	8	1612	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	8	1615	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	8	1618	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	8	1621	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	8	1624	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	8	1627	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
JUL	8	1630	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.04
JUL	8	1633	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20
JUL	8	1636	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.16
JUL	8	1639	BOOM MAST	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0.26
JUL	8	1642	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.29
JUL	8	1645	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.31
JUL	8	1648	BOOM MAST	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.47
JUL	8	1651	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0.48
JUL	8	1651	BOOM MAST	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.40

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	>	TOTAL AMOUNTS MM
				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JUL	8	1654	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	8	1657	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	8	17 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	8	17 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	8	17 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	8	17 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	8	1712	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	8	1715	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
JUL	8	1718	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12
JUL	8	1721	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.16
JUL	8	1724	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.12
JUL	8	1727	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.12
JUL	8	1730	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.14
JUL	8	1733	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.16

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0				
JUL	8	1736	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M	
JUL	8	1739	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	1742	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	1745	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	1748	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	1751	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	1754	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	1757	BOOM MAST	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0.47	M
JUL	8	18 0	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.31	M
JUL	8	18 3	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12	M
JUL	8	18 6	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.10	M
JUL	8	18 9	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M
JUL	8	1812	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M
JUL	8	1815	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM	MM				
JUL	8	1818	800M MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M			
JUL	8	1821	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M			
JUL	8	1824	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M			
JUL	8	1827	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M			
JUL	8	1830	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M			
JUL	8	1833	800M MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M			
JUL	8	1836	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	M			
JUL	8	1839	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	M			
JUL	8	1842	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M			
JUL	8	1845	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M			
JUL	8	1848	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M			
JUL	8	1851	800M MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M			
JUL	8	1854	800M MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M			
JUL	8	1857	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE			YEAR: 1974	TOTAL AMOUNTS MM	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0				
JUL	8	19 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M	
JUL	8	19 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	19 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	19 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	19 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
JUL	8	19 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
JUL	8	19 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
JUL	8	19 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
JUL	8	19 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
JUL	8	19 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	19 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	19 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	19 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M
JUL	8	19 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974
MONTH DAY TIME(Z) SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
JUL	8 1942	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	8 1945	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	8 1948	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	8 1951	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	8 1954	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	8 1957	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	8 20 0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	8 20 3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
JUL	8 20 6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD		MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
		JUL 8 1530 TO JUL 8 2230	JUL 8 2230	M	7.0 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE	YEAR: 1974
MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		
JUL	13	20 0	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.06
JUL	13	20 3	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.06
JUL	13	20 6	BOOM MAST	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.06 0.06
JUL	13	20 9	BOOM MAST	0 0	1 1	0 0	0 0	0 0	1 0	1 0	1 2	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0.56 0.72
JUL	13	20 12	BOOM MAST	0 0	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.18 0.26
JUL	13	20 15	BOOM MAST	0 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.15 0.04
JUL	13	20 18	BOOM MAST	1 1	0 0	0 0	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.13 0.02
JUL	13	20 21	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
JUL	13	20 24	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
JUL	13	20 27	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
JUL	13	20 30	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
JUL	13	20 33	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
JUL	13	20 36	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
JUL	13	20 39	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE	YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
JUL	13 2042	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
JUL	13 2045	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
JUL	13 2048	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.02
JUL	13 2051	BOOM MAST	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.02 0.01

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD		MONTH	DAY	TIME	MONTH	DAY	TIME	BOOM	MAST
		JUL	13	20 0	JUL	13	21 0	1.4 MM	1.4 MM

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0				
AUG	8	933	800M MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.02 M		
AUG	8	936	800M MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.30 M		
AUG	8	939	800M MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.18 M		
AUG	8	942	800M MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13 M		
AUG	8	945	800M MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M		
AUG	8	948	800M MAST	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0.20 M		
AUG	8	951	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.14 M		
AUG	8	954	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M		
AUG	8	957	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M		
AUG	8	10 0	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M		
AUG	8	10 3	800M MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN 80TH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME MONTH DAY TIME MAST
AUG 8 830 TO AUG 8 1030 1.6 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR																PROJECT: GATE		YEAR: 1974	
MONTH	DAY TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM			
AUG	8 17 9	ROOM MAST	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0.26	M		
AUG	8 17 12	ROOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11	M		
AUG	8 17 15	ROOM MAST	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0.34	M		
AUG	8 17 18	ROOM MAST	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.31	M		
AUG	8 17 21	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
AUG	8 17 24	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
AUG	8 17 27	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
AUG	8 17 30	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
AUG	8 17 33	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
AUG	8 17 36	ROOM MAST	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.17	M		
AUG	8 17 39	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	M		
AUG	8 17 42	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
AUG	8 17 45	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		
AUG	8 17 48	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	M		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		PROJECT: GATE														YEAR: 1974	
MONTH DAY TIME(Z)		OCCURRENCE OF RATES BY CLASS IN MM/HR														TOTAL	
		BY 3-MINUTE PERIODS														AMOUNTS MM	
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
AUG	8 1751	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
		BOOM MAST															
AUG	8 1754	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
		BOOM MAST															
AUG	8 1757	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
		BOOM MAST															
AUG	8 18 0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
		BOOM MAST															
AUG	8 18 3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.21 M
		BOOM MAST															
AUG	8 18 6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
		BOOM MAST															
AUG	8 18 9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
		BOOM MAST															
AUG	8 1812	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
		BOOM MAST															
AUG	8 1815	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
		BOOM MAST															
AUG	8 1818	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
		BOOM MAST															
AUG	8 1821	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
		BOOM MAST															
AUG	8 1824	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0.23 M
		BOOM MAST															
AUG	8 1827	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
		BOOM MAST															
AUG	8 1830	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
		BOOM MAST															

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL AMOUNTS MM	
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0		
AUG 8 1833	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M
AUG 8 1836	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
AUG 8 1839	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
AUG 8 1842	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
AUG 8 1845	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
AUG 8 1848	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
AUG 8 1851	BOOM MAST	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0.44	M
AUG 8 1854	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.38	M

VDTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	AUG 8 17 9 TO	AUG 8 1857	3.4 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	<105.0 105.0	TOTAL AMOUNTS MM
AUG	30 0 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
AUG	30 0 36	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08
AUG	30 0 39	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0						
AUG	30	042	ROOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M				
AUG	30	045	ROOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M				
AUG	30	048	ROOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M				
AUG	30	051	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M				
AUG	30	054	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M				
AUG	30	057	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M				
AUG	30	1 0	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M				
AUG	30	1 3	ROOM MAST	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.14 M				
AUG	30	1 6	ROOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.40 M				
AUG	30	1 9	ROOM MAST	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0.55 M				
AUG	30	112	ROOM MAST	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.47 M				
AUG	30	115	ROOM MAST	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.31 M				
AUG	30	118	ROOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.21 M				
AUG	30	121	ROOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.22 M				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH DAY TIME(Z)		SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0						
MONTH	DAY	TIME(Z)	SENSOR																			
AUG	30	124	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.20	M			
AUG	30	127	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.20	M			
AUG	30	130	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.20	M			
AUG	30	133	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.20	M			
AUG	30	136	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.21	M			
AUG	30	139	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.22	M			
AUG	30	142	BOOM MAST	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.23	M			
AUG	30	145	BOOM MAST	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.27	M			
AUG	30	148	BOOM MAST	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0.46	M			
AUG	30	151	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.30	M			
AUG	30	154	BOOM MAST	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0.55	M			
AUG	30	157	BOOM MAST	0	0	0	0	0	1	0	0	0	0	2	1	3	2	8	3.30	M		
AUG	30	2 0	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.24	M		

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
AUG 30 0 0 TO AUG 30 412 9.8 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0												>				TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
SEP	2	042	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	045	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	048	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	051	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	054	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	057	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	1 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	1 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	1 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	1 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	112	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	2	115	BOOM MAST	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.32 M
SEP	2	118	BOOM MAST	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.31 M
SEP	2	121	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		PRECIPITATION RATES (MM/HR)															TOTAL AMOUNTS MM	
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	>		
SEP	2 124	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
		BOOM																
		MAST																
SEP	2 127	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
		BOOM																
		MAST																
SEP	2 130	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
		BOOM																
		MAST																
SEP	2 133	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	M
		BOOM																
		MAST																

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD SEP 2 042 TO SEP 2 2 0 1.0 MM MAST

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974	
MONTH DAY TIME (Z)		SENSOR		<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL	
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		AMOUNTS MM
SEP	2 1254	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 1257	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 13 0	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 13 3	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 13 6	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 13 9	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 1312	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 1315	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 1318	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 1321	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 1324	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 1327	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 1330	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
SEP	2 1333	BOOM	MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0						
SEP	2	1336	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	1339	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	1342	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	1345	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	1348	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	1351	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	1354	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	1357	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	14 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	14 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	14 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	14 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	1412	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			
SEP	2	1415	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	2	1418	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	2	1421	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	2	1424	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	2	1427	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	2	1430	BOOM MAST	1	0	0	0	0	0	1	0	1	0	0	0	0	1	1	0.64 M
SEP	2	1433	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.19 M
SEP	2	1436	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	2	1439	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	2	1442	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	2	1445	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	SEP 2 1254 TO	SEP 2 16 0	1.4 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	4	515	BOOM MAST	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0.25 M
SEP	4	518	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.43 M
SEP	4	521	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.30 M
SEP	4	524	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
SEP	4	527	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	4	530	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	4	533	BOOM MAST	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
SEP	4	536	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
SEP	4	539	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.10 M
SEP	4	542	BOOM MAST	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M
SEP	4	545	BOOM MAST	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0.39 M
SEP	4	548	BOOM MAST	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.30 M
SEP	4	551	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	4	554	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z) SENSOR			<1.0																	>										TOTAL
			0.2	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0			MM									
SEP	4	557	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02									
SEP	4	600	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02									
SEP	4	603	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02									
SEP	4	606	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02									
SEP	4	609	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02									
SEP	4	612	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02									
SEP	4	615	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07									
SEP	4	618	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13									
SEP	4	621	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.18									
SEP	4	624	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05									
SEP	4	627	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02									
SEP	4	630	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02									
SEP	4	633	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02									
SEP	4	636	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02									

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)			SENSOR	<1.0	1.0	<1.5	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	> 105.0	TOTAL AMOUNTS MM
SEP	4	639	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	4	642	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	4	645	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	4	648	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	4	651	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.15 M
SEP	4	654	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
SEP 4 515 TO SEP 4 7 0 3.2 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0																TOTAL
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	AMOUNTS MM
SEP	4	8 0	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
SEP	4	8 3	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
SEP	4	8 6	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06 M
SEP	4	8 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.22 M

NOTE: 3-MINUTE PERIODS WITH RATES < 0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
SEP 4 8 0 TO SEP 4 8 30 0.4 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		
SEP	6	930	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	6	933	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	6	936	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	6	939	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	6	942	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	6	945	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	6	948	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.11 M
SEP	6	951	BOOM MAST	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.13 M
SEP	6	954	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.10 M
SEP	6	957	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD
SEP 6 930 TO SEP 6 11 0 0.6 MM MAST

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0				
SEP	6	20 0	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M	
SEP	6	20 3	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M	
SEP	6	20 6	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	M	
SEP	6	20 9	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0.17	M	
SEP	6	20 12	BOOM MAST	0	0	0	0	1	0	0	0	1	3	0	0	0	0	0	0.75	M	
SEP	6	20 15	BOOM MAST	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	0.72	M	
SEP	6	20 18	BOOM MAST	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0.26	M	
SEP	6	20 21	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16	M	
SEP	6	20 24	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M	
SEP	6	20 27	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M	
SEP	6	20 30	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	M	
SEP	6	20 33	BOOM MAST	0	1	0	0	0	0	1	0	0	1	1	0	2	0	4	1.70	M	
SEP	6	20 36	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	2	0	2	3	1.53	M	
SEP	6	20 39	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	M	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)		SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 105.0	TOTAL AMOUNTS MM
SEP	6 2042	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
SEP	6 2045	BOOM MAST	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0.29 M
SEP	6 2048	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.35 M
SEP	6 2051	BOOM MAST	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0.73 M
SEP	6 2054	BOOM MAST	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0.43 M
SEP	6 2057	BOOM MAST	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0.70 M
SEP	6 21 0	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.31 M
SEP	6 21 3	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.08 M
SEP	6 21 6	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
SEP	6 21 9	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
SEP	6 2112	BOOM MAST	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0.21 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
SEP 6 20 0 TO SEP 6 22 0 9.0 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0 0.2															> 105.0					TOTAL AMOUNTS MM
				<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	>							
SEP	11	1730	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	1733	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	1736	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	1739	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	1742	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	1745	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	1748	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	1751	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	1754	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	1757	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	18 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	18 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	18 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	11	18 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
MONTH DAY TIME (Z)			SENSOR		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	> 73.0	> 105.0	TOTAL AMOUNTS MM		
SEP	11	1812	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
SEP	11	1815	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
SEP	11	1818	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M		
SEP	11	1821	BOOM MAST	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0.36 M		
SEP	11	1824	BOOM MAST	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0.71 M		
SEP	11	1827	BOOM MAST	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0.60 M		
SEP	11	1830	BOOM MAST	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0.87 M		
SEP	11	1833	BOOM MAST	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0.40 M		
SEP	11	1836	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.18 M		
SEP	11	1839	BOOM MAST	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12 M		
SEP	11	1842	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M		
SEP	11	1845	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M		
SEP	11	1848	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M		
SEP	11	1851	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M		

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE

YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2																> 105.0				TOTAL AMOUNTS MM
				<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	<105.0	<105.0	<105.0	<105.0	<105.0	
SEP	11	1854	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11	1857	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11	19 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11	19 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11	19 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11	19 9	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
SEP	11	1912	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.18 M
SEP	11	1915	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11	1918	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11	1921	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11	1924	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11	1927	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11	1930	BOOM MAST	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.14 M
SEP	11	1933	BOOM MAST	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0.93 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	11 1936	BOOM MAST	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0.61 M
SEP	11 1939	BOOM MAST	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0.83 M
SEP	11 1942	BOOM MAST	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0.75 M
SEP	11 1945	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
SEP	11 1948	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
SEP	11 1951	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	11 1954	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11 1957	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11 20 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11 20 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11 20 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	11 20 9	BOOM MAST	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.09 M
SEP	11 20 12	BOOM MAST	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.41 M
SEP	11 20 15	BOOM MAST	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0.27 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE		YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	AMOUNTS MM
SEP	11	2018	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.17 M
SEP	11	2021	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15 M
SEP	11	2024	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15 M
SEP	11	2027	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M
SEP	11	2030	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18 M
SEP	11	2033	BOOM MAST	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0.37 M
SEP	11	2036	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.21 M
SEP	11	2039	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M
SEP	11	2042	BOOM MAST	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0.34 M
SEP	11	2045	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.14 M
SEP	11	2048	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
SEP	11	2051	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07 M
SEP	11	2054	BOOM MAST	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0.39 M
SEP	11	2057	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.20 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE			YEAR: 1974		TOTAL AMOUNTS MM
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0			
SEP	11	21 0	BOOM MAST	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0.34 M	
SEP	11	21 3	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.21 M	
SEP	11	21 6	BOOM MAST	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0.15 M	
SEP	11	21 9	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.13 M	
SEP	11	21 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
SEP	11	21 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
SEP	11	21 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
SEP	11	21 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
SEP	11	21 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
SEP	11	21 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
SEP	11	21 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
SEP	11	21 33	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
SEP	11	21 36	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
SEP	11	21 39	BOOM MAST	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE			YEAR: 1974	
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<6.1 6.1	<8.7 8.7	<12.4 12.4	<18.0 18.0	<25.0 25.0	<36.0 36.0	<51.0 51.0	<73.0 73.0	> 105.0	TOTAL AMOUNTS MM				
MONTH	DAY TIME(Z)	SENSJR																			
SEP	11 2142	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.12	M			
SEP	11 2145	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.15	M			
SEP	11 2148	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.16	M			
SEP	11 2151	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14	M			
SEP	11 2154	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.15	M			
SEP	11 2157	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0.16	M			
SEP	11 22 0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.18	M			
SEP	11 22 3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.19	M			
SEP	11 22 6	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.21	M			
SEP	11 22 9	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.18	M			
SEP	11 2212	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.14	M			
SEP	11 2215	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.13	M			
SEP	11 2218	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.08	M			
SEP	11 2221	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		
SEP	11	2224	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
SEP	11	2227	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
SEP	11	2230	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
SEP	11	2233	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	1.56 M
SEP	11	2236	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0.88 M
SEP	11	2239	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	11	2242	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	11	2245	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	11	2248	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	11	2251	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	11	2254	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	11	2257	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	11	23 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	11	23 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP 11 23 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP 11 23 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP 11 23 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP 11 23 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP 11 23 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP 11 23 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP 11 23 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD MONTH DAY TIME MONTH DAY TIME BOOM MAST
SEP 11 1730 TO SEP 12 00 17.2 MM M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974
MONTH	DAY	TIME (Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM
SEP	16	530	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	533	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	536	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	539	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	542	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	545	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	548	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	551	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	554	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	557	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	6 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	6 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	6 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	16	6 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0											>				TOTAL AMOUNTS MM
				0.2	<1.0	<1.5	<2.1	<3.0	<4.3	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	
SEP	16	612	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	16	615	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	16	618	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	16	621	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	16	624	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M
SEP	16	627	BOOM MAST	1	0	0	0	0	0	0	1	0	0	0	0	2	1	2	1.49 M
SEP	16	630	BOOM MAST	0	0	0	0	0	0	0	0	1	3	2	1	0	0	0	1.36 M
SEP	16	633	BOOM MAST	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0.63 M
SEP	16	636	BOOM MAST	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0.61 M
SEP	16	639	BOOM MAST	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0.74 M
SEP	16	642	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
SEP	16	645	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
SEP	16	648	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0.43 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD SEP 16 530 TO SEP 16 730 BOOM 5.8 MM MAST

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
8Y 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES 8Y CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974	
MONTH DAY TIME(Z)			SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	TOTAL AMOUNTS MM		
SEP	16	827	800M MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.19 M	
SEP	16	830	800M MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.02 M	
SEP	16	833	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	836	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	839	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	842	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	845	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	848	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	851	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	854	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	857	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	9 0	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	9 3	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	
SEP	16	9 6	800M MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M	

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE			YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	5.1	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
SEP	16	9 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	9 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	9 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	9 18	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	9 21	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	16	9 24	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	16	9 27	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	16	9 30	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	16	9 33	BOOM MAST	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	16	9 36	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	16	9 39	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	16	9 42	BOOM MAST	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M
SEP	16	9 45	BOOM MAST	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.13 M
SEP	16	9 48	BOOM MAST	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0.24 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR														PROJECT: GATE				YEAR: 1974	
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM			
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0				
SEP	16	951	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M			
SEP	16	954	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M			
SEP	16	957	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M			
SEP	16	10 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05 M			
SEP	16	10 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
SEP	16	10 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
SEP	16	10 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
SEP	16	1012	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
SEP	16	1015	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
SEP	16	1018	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
SEP	16	1021	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
SEP	16	1024	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M			
SEP	16	1027	BOOM MAST	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.11 M			
SEP	16	1030	BOOM MAST	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.11 M			

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR													PROJECT: GATE		YEAR: 1974	TOTAL AMOUNTS MM
MONTH	DAY TIME(Z)	SENSOR	<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	>	
SEP	16 1133	BOOM MAST	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.03 M
SEP	16 1136	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.19 M
SEP	16 1139	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 1142	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 1145	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 1148	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 1151	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 1154	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 1157	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 12 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 12 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 12 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 12 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16 1212	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)			SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0		
SEP	16	1215	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1218	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1221	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1224	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1227	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1230	ROOM MAST	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0.53 M
SEP	16	1233	ROOM MAST	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0.62 M
SEP	16	1236	ROOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.13 M
SEP	16	1239	ROOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08 M
SEP	16	1242	ROOM MAST	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0.34 M
SEP	16	1245	ROOM MAST	0	0	0	0	0	0	0	1	0	1	1	2	0	0	0	0	1.08 M
SEP	16	1248	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	1	1	1	6	1	1.83 M
SEP	16	1251	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	1254	ROOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0	105.0	
SEP	16	1257	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	13 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	13 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	13 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	13 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	1312	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	1315	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	1318	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP	16	1321	BOOM MAST	1	0	0	0	0	0	0	0	2	0	1	1	1	3	0	1.35 M
SEP	16	1324	BOOM MAST	0	0	0	0	0	0	0	1	1	1	0	1	1	1	2	1.54 M
SEP	16	1327	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.19 M
SEP	16	1330	BOOM MAST	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.09 M
SEP	16	1333	BOOM MAST	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
SEP	16	1336	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER		OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE		YEAR: 1974
MONTH	DAY	TIME (Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	>	TOTAL AMOUNTS MM
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		
SEP	16	1339	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1342	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1345	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1348	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1351	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1354	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1357	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	14 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	14 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	14 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	14 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1412	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1415	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01 M
SEP	16	1418	BOOM MAST	1	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0.98 M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME (Z)	SENSOR	<1.0 0.2											> 105.0				TOTAL AMOUNTS MM
		<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<6.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	<105.0	
SEP 16 1421	BOOM MAST	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0.63 M
SEP 16 1424	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP 16 1427	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP 16 1430	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP 16 1433	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP 16 1436	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP 16 1439	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP 16 1442	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M
SEP 16 1445	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	SEP 16 827 TO	SEP 16 15 0	12.4 MM	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER			OCCURRENCE OF RATES BY CLASS IN MM/HR															PROJECT: GATE					YEAR: 1974
MONTH	DAY	TIME(Z)	SENSOR	<1.0	<1.5	<2.1	<3.0	<4.3	<5.1	<8.7	<12.4	<18.0	<25.0	<36.0	<51.0	<73.0	>	TOTAL AMOUNTS MM					
				0.2	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	18.0	25.0	36.0	51.0	73.0		105.0				
SEP	17	1324	BOOM MAST	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0.64				
SEP	17	1327	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16				
SEP	17	1330	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	1333	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	1336	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	1339	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	1342	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	1345	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	1348	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	1351	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	1354	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	1357	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	14 0	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				
SEP	17	14 3	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01				

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH	DAY	TIME(Z)	SENSOR	OCCURRENCE OF RATES BY CLASS IN MM/HR															TOTAL	
				<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<6.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	AMOUNTS	MM
SEP	17	14 6	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	17	14 9	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	17	14 12	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	17	14 15	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	M
SEP	17	14 18	BOOM MAST	1	0	0	0	0	0	1	0	0	2	1	0	0	0	0	0.62	M
SEP	17	14 21	BOOM MAST	0	0	0	0	0	0	1	0	1	0	0	0	0	2	0	0.95	M
SEP	17	14 24	BOOM MAST	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0.56	M
SEP	17	14 27	BOOM MAST	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0.58	M
SEP	17	14 30	BOOM MAST	0	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0.82	M
SEP	17	14 33	BOOM MAST	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0.67	M
SEP	17	14 36	BOOM MAST	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.22	M
SEP	17	14 39	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
SEP	17	14 42	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M
SEP	17	14 45	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	M

AUTOMATED MEASUREMENT OF
PRECIPITATION RATES AND AMOUNTS
BY 3-MINUTE PERIODS

SHIP: OCEANOGRAPHER

PROJECT: GATE YEAR: 1974

OCCURRENCE OF RATES BY CLASS IN MM/HR

MONTH DAY TIME(Z)	SENSOR	PRECIPITATION RATES (MM/HR)															TOTAL AMOUNTS MM
		<1.0 0.2	<1.5 1.0	<2.1 1.5	<3.0 2.1	<4.3 3.0	<5.1 4.3	<8.7 6.1	<12.4 8.7	<18.0 12.4	<25.0 18.0	<36.0 25.0	<51.0 36.0	<73.0 51.0	<105.0 73.0	> 105.0	
SEP 17 1448	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04 M
SEP 17 1451	BOOM MAST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03 M

NOTE: 3-MINUTE PERIODS WITH RATES <0.2 MM/HR ARE INCLUDED IN TOTAL FOR ENTIRE PRECIPITATION PERIOD, BUT ARE NOT LISTED WHEN BOTH SENSORS RECORD LESS THAN THIS RATE.

TOTAL PRECIPITATION FOR PERIOD	MONTH DAY TIME	MONTH DAY TIME	BOOM	MAST
	SEP 17 1324 TO	SEP 17 15 0	5.6 MM	M

APPENDIX

SUPPLEMENTARY PRECIPITATION DATA

Additional, optional, equipment used during GATE to measure precipitation consisted of plastic wedge rain gages installed on the Researcher, Gilliss, Dallas, and Oceanographer. The data obtained from these gages are shown in tables A.1 to A.4.

Three plastic rain gages were used on the Researcher (table A.1). Two of these, the weather shelter gage and the flying bridge gage, were mounted on the bridge of the ship and were read at the ship watch changes every 4 hr, as well as at synoptic observation times every 6 hr. The third, the crane wedge gage, was read on the hour and was located on the fantail of the ship.

On the Gilliss, four supplementary rain gages were used. These were read at random times, depending up precipitation periods. Gage 1 was located farthest astern on the fantail of the ship. Gage 2 was located by the distrometer on the fantail. Gage 3 was mounted on the railing of the bridge, and gage 5 on the railing on the port side of the bow. The amount shown for gage 4 in table A.2 is the rainfall that passed through the siphon gage and was collected at the base of the mast. This rainfall was also recorded in the WMO standard marine logs (see sec. 2). For all five gages, beginning and ending times of precipitation are given.

Two supplementary data sets were obtained on the Dallas from the wedge gage and the bow gage (table A.3), both of which were mounted on the bow. The wedge gage record starts during Intercomparison 2 (August 16-18). As for the Gilliss, precipitation beginning and ending times are given.

The Oceanographer was equipped with two plastic gages, one on the bow and the other on the fantail (table A.4). Both were read every half hour during periods of rain.

Table A.1.--Researcher supplementary rainfall data

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)	
			<u>Weather shelter</u> <u>gage</u>	<u>Flying bridge</u> <u>gage</u>
June 28	179	0400	Not read	13.21
June 28	179	0600	12.95	13.46
June 28	179	1800	62.23	55.88
June 29	180	0000	0.00	0.76
June 29	180	1800	4.83	5.08
June 29	180	2200	77.47	88.14
June 30	181	0000	Not read	6.10
June 30	181	0600	6.35	8.13
June 30	181	1800	4.32	5.08
July 1	182	0000	2.29	2.54
July 1	182	0600	0.00	3.81
July 1	182	1800	13.21	10.16
July 2	183	0000	0.00	0.51
July 2	183	0600	16.26	11.18
July 2	183	1200	0.00	0.25
July 2	183	1800	1.27	0.76
July 3	184	0000	13.21	10.67
July 3	184	0600	6.86	7.11
July 3	184	1800	0.00	0.00
July 4	185	0600	0.00	0.00
July 4	185	1800	5.59	4.83
July 5	186	1800	9.65	10.16
July 6	187	1200	0.51	0.51
July 7	188	0000	0.25	Not read
July 7	188	0600	0.76	Not read
July 7	188	1200	6.35	Not read
July 7	188	1800	0.76	Not read
July 8	189	0000	1.27	Not read
July 8	189	1200	3.81	Not read
July 8	189	2000	99.06	Not read
July 9	190	0000	15.75	Not read
July 9	190	0600	0.30	0.25
July 11	192	2050	T	T
July 12	193	1529	T	T

Table A.1.--Researcher supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)	
			<u>Weather shelter</u> <u>gage</u>	<u>Flying bridge</u> <u>gage</u>
July 13	194	0400	0.30	0.30
July 13	194	1910	T	T
July 13	194	2105	T	T
July 15	196	0000	10.97	Not read
July 16	197	0000	0.76	0.76
July 18	199	1800	2.29	2.03
July 27	208	0800	5.21	Not read
July 27	208	1900	0.76	Not read
July 28	209	1200	40.64	Not read
July 29	210	0000	5.33	Not read
July 29	210	1200	8.64	Not read
July 31	212	0000	T	Not read
Aug. 3	215	0000	7.37	Not read
Aug. 3	215	1200	7.62	Not read
Aug. 4	216	0000	7.62	Not read
Aug. 5	217	0000	0.97	Not read
Aug. 5	217	1200	2.54	Not read
Aug. 6	218	0000	T	Not read
Aug. 7	219	1600	3.30	Not read
Aug. 8	220	0000	0.25	Not read
Aug. 8	220	1200	1.14	Not read
Aug. 10	222	1200	8.13	Not read
Aug. 11	223	0000	T	Not read
Aug. 12	224	0000	T	Not read
Aug. 12	224	1200	17.27	Not read
Aug. 13	225	0000	0.51	Not read
Aug. 13	225	1200	1.52	Not read
Aug. 17	229	0000	T	Not read
Aug. 18	230	0000	0.25	Not read
Aug. 18	230	1200	18.29	Not read
Aug. 19	231	0000	T	Not read
Aug. 19	231	1200	27.94	Not read
Aug. 20	232	0000	3.81	Not read
Aug. 30	242	1200	9.65	Not read

Table A.1.--Researcher supplementary rainfall data (continued)

Date (1974)		Julian day	Time of reading (GMT)	Rainfall amount (mm)	
				<u>Weather shelter</u> <u>gage</u>	<u>Flying bridge</u> <u>gage</u>
Sept.	1	244	0000	0.25	Not read
Sept.	1	244	1200	0.76	Not read
Sept.	2	245	1200	1.27	Not read
Sept.	3	246	0000	25.91	Not read
Sept.	4	247	0000	3.05	Not read
Sept.	4	247	1200	9.14	Not read
Sept.	5	248	0000	28.70	Not read
Sept.	5	248	1200	T	Not read
Sept.	6	249	0000	20.32	Not read
Sept.	6	249	1200	0.76	Not read
Sept.	7	250	0000	0.38	Not read
Sept.	10	253	1200	T	Not read
Sept.	11	254	0000	0.76	Not read
Sept.	11	254	1200	T	Not read
Sept.	12	255	0000	25.40	Not read
Sept.	12	255	1200	1.02	Not read
Sept.	13	256	0000	6.35	Not read
Sept.	14	257	1200	T	Not read
Sept.	15	258	1200	T	Not read
Sept.	16	259	1200	23.62	Not read
Sept.	17	260	0000	25.65	Not read
Sept.	17	260	1200	1.02	Not read
Sept.	18	261	0000	1.02	Not read
Sept.	18	261	1200	2.54	Not read
Sept.	20	263	0000	0.25	Not read
Sept.	21	264	0000	25.91	Not read
Sept.	21	264	1200	17.02	Not read
Sept.	22	265	1200	18.03	Not read
				<u>Crane wedge gage</u>	
June	28	179	1500	0.89	
June	28	179	1600	0.25	
June	29	180	1500	T	
June	29	180	1600	T	
June	29	180	1700	2.79	

Table A.1.--Researcher supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)
			<u>Crane wedge gage</u>
June 29	180	1900	1.02
June 29	180	2000	25.40
June 29	180	2100	33.02
June 29	180	2200	11.94
June 29	180	2300	3.81
June 30	181	0000	0.76
June 30	181	0100	3.56
June 30	181	0200	0.51
June 30	181	1000	4.06
June 30	181	1200	0.25
June 30	181	1300	T
June 30	181	1400	0.76
June 30	181	1800	T
June 30	181	1900	0.51
June 30	181	2000	0.25
June 30	181	2100	0.03
June 30	181	2200	1.78
June 30	181	2300	0.25
July 1	182	1300	0.76
July 1	182	1400	4.57
July 1	182	1500	1.27
July 1	182	1600	10.41
July 1	182	1700	0.76
July 2	183	0200	2.03
July 2	183	0300	11.18
July 2	183	0400	0.76
July 2	183	0500	1.09
July 2	183	0600	0.51
July 2	183	0700	0.25
July 2	183	0800	T
July 2	183	1300	T
July 2	183	1400	0.25
July 2	183	1500	0.38
July 2	183	1900	0.76
July 2	183	2000	2.03
July 2	183	2100	2.54

Table A.1.--Researcher supplementary rainfall data (continued)

Date (1974)		Julian day	Time of reading (GMT)	Rainfall amount (mm)
				<u>Crane wedge gage</u>
July	2	183	2200	2.54
July	2	183	2300	1.52
July	3	184	0000	2.79
July	3	184	0100	1.78
July	3	184	0200	0.51
July	3	184	0300	0.25
July	3	184	0400	T
July	3	184	0500	0.25
July	3	184	0600	1.27
July	3	184	0700	0.51
July	3	184	0800	0.00
July	3	184	0900	T
July	4	185	1300	0.76
July	4	185	1500	3.81
July	4	185	2100	T
July	5	186	1800	4.70
July	5	186	1900	2.79
July	6	187	1000	T
July	6	187	1100	0.38
July	7	188	0400	T
July	7	188	0500	1.02
July	7	188	0600	T
July	7	188	1000	T
July	7	188	1100	5.33
July	7	188	1200	T
July	7	188	1300	5.33
July	7	188	1400	4.83
July	7	188	1500	T
July	7	188	1900	T
July	7	188	2000	1.52
July	7	188	2100	0.56
July	7	188	2200	0.15
July	8	189	0900	T
July	8	189	1100	3.81
July	8	189	1200	1.02
July	8	189	1300	T

Table A.1.--Researcher supplementary rainfall data (continued)

Date (1974)		Julian day	Time of reading (GMT)	Rainfall amount (mm)
				<u>Crane wedge gage</u>
July	8	189	1800	20.32
July	8	189	1900	59.69
July	8	189	2000	35.56
July	8	189	2100	6.60
July	8	189	2200	5.08
July	8	189	2300	2.29
July	9	190	0000	T
July	9	190	0400	T
July	9	190	0500	T
July	11	192	2100	T
July	12	193	1600	0.25
July	13	194	0400	0.76
July	14	195	0000	1.02
July	14	195	0100	0.76
July	14	195	0200	T
July	14	195	0800	5.08
July	14	195	0900	4.57
July	14	195	1000	0.51
July	14	195	1400	0.25
July	14	195	1500	0.25
July	14	195	2000	T
July	14	195	2100	T
July	15	196	1200	0.51
July	15	196	1500	0.25
July	15	196	1600	T
July	15	196	1900	T
July	16	197	0900	T
July	28	209	0100	7.62
July	28	209	0200	4.57
July	28	209	0300	0.51
July	28	209	0400	0.25
July	28	209	0500	0.25
July	28	209	0600	23.39

Table A.1.--Researcher supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)
			<u>Crane wedge gage</u>
July 28	209	0700	1.78
July 28	209	0800	3.30
July 28	209	0900	1.27
July 28	209	1000	T
July 28	209	1100	1.78
July 28	209	1200	1.78
July 28	209	1600	1.02
July 28	209	1700	0.51
July 28	209	1800	1.27
July 28	209	1900	T
July 28	209	2200	2.79
July 28	209	2300	T
July 29	210	0000	T
July 29	210	0600	5.59
July 29	210	0700	2.29
July 29	210	0800	0.51
July 29	210	1100	1.02
Aug. 2	214	1900	0.51
Aug. 2	214	2200	10.16
Aug. 2	214	2300	3.30
Aug. 3	215	0000	0.25
Aug. 3	215	0100	T
Aug. 3	215	0400	T
Aug. 3	215	0500	T
Aug. 3	215	0600	2.54
Aug. 3	215	0700	5.08
Aug. 3	215	0800	T
Aug. 3	215	1200	0.51
Aug. 3	215	1300	3.81
Aug. 3	215	1400	T
Aug. 3	215	1500	0.51
Aug. 3	215	1600	0.51
Aug. 3	215	1700	0.25
Aug. 3	215	2000	T
Aug. 3	215	2100	1.27

Table A.1.--Researcher supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)
<u>Crane wedge gage</u>			
Aug. 3	215	2300	T
Aug. 4	216	0300	T
Aug. 4	216	1700	0.25
Aug. 4	216	1800	0.25
Aug. 4	216	1900	0.25
Aug. 5	217	0500	0.25
Aug. 5	217	0600	0.51
Aug. 5	217	1100	1.52
Aug. 7	219	0900	1.52
Aug. 7	219	1000	1.52
Aug. 7	219	1100	T
Aug. 10	222	1100	16.00
Aug. 11	223	2300	T
Aug. 12	224	0100	T
Aug. 12	224	0200	T
Aug. 12	224	0400	3.56
Aug. 12	224	0600	14.99
Aug. 12	224	0700	2.79
Aug. 12	224	0800	0.76
Aug. 12	224	0900	T
Aug. 12	224	1700	0.51
Aug. 13	225	0000	T
Aug. 13	225	0100	0.00
Aug. 13	225	0200	T
Aug. 13	225	0300	0.00
Aug. 13	225	0400	1.78
Aug. 13	225	0500	0.00
Aug. 13	225	0600	T
Aug. 17	229	1900	0.51
Aug. 18	230	0800	4.06
Aug. 18	230	1000	15.24
Aug. 18	230	1400	0.25
Aug. 19	231	0800	27.43

Table A.1.--Researcher supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)
			<u>Crane wedge gage</u>
Aug. 19	231	1100	0.25
Aug. 19	231	1900	3.56
Aug. 29	241	1900	2.54
Aug. 29	241	2300	13.72
Aug. 30	242	0100	1.52
Aug. 30	242	0800	8.64
Aug. 30	242	0900	2.29
Aug. 30	242	1000	0.38
Aug. 31	243	2000	0.33
Sept. 1	244	0500	0.76
Sept. 1	244	0600	0.51
Sept. 2	245	0600	1.78
Sept. 2	245	0700	0.51
Sept. 2	245	1600	16.76
Sept. 2	245	1700	4.32
Sept. 2	245	1800	Unknown
Sept. 2	245	1900	1.27
Sept. 2	245	2000	T
Sept. 2	245	2100	1.27
Sept. 2	245	2200	T
Sept. 3	246	1600	0.25
Sept. 3	246	1700	0.76
Sept. 3	246	2300	0.51
Sept. 4	247	0000	4.32
Sept. 4	247	0100	5.33
Sept. 4	247	0200	0.51
Sept. 4	247	0400	0.25
Sept. 4	247	0500	0.25
Sept. 4	247	0700	2.03
Sept. 4	247	0800	0.38
Sept. 4	247	1100	0.89
Sept. 4	247	1200	0.38
Sept. 4	247	1400	1.27
Sept. 4	247	1500	T
Sept. 4	247	1600	0.51
Sept. 4	247	1700	1.52

Table A.1.--Researcher supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)
			<u>Crane wedge gage</u>
Sept. 4	247	1800	1.52
Sept. 4	247	1900	6.10
Sept. 4	247	2000	9.14
Sept. 4	247	2100	4.57
Sept. 4	247	2200	6.60
Sept. 4	247	2300	3.30
Sept. 5	248	0000	0.76
Sept. 5	248	0900	0.38
Sept. 5	248	1000	T
Sept. 5	248	1100	T
Sept. 5	248	2000	2.03
Sept. 5	248	2100	10.67
Sept. 5	248	2200	10.67
Sept. 5	248	2300	0.25
Sept. 6	249	0600	1.27
Sept. 6	249	0700	0.25
Sept. 6	249	0800	0.25
Sept. 6	249	1400	0.51
Sept. 10	253	0800	T
Sept. 10	253	0900	0.25
Sept. 10	253	1400	1.14
Sept. 11	254	0100	0.76
Sept. 11	254	0300	0.25
Sept. 11	254	0500	T
Sept. 11	254	2200	T
Sept. 12	255	0000	35.66
Sept. 12	255	0100	0.51
Sept. 12	255	0500	T
Sept. 12	255	0800	T
Sept. 12	255	0900	T
Sept. 12	255	1300	T
Sept. 12	255	1600	1.27
Sept. 12	255	1800	6.10

Table A.1.--Researcher supplementary rainfall data (continued)

Date (1974)	Julian (day)	Time of reading (GMT)	Rainfall amount (mm)
			<u>Crane wedge gage</u>
Sept. 12	255	1900	0.89
Sept. 12	255	2100	0.25
Sept. 13	256	2100	0.25
Sept. 14	257	0000	1.02
Sept. 14	257	1600	0.76
Sept. 16	259	1100	24.38
Sept. 16	259	1200	6.60
Sept. 16	259	1400	0.51
Sept. 16	259	1800	7.11
Sept. 16	259	1900	8.13
Sept. 16	259	2000	1.27
Sept. 16	259	2100	3.05
Sept. 16	259	2200	5.33
Sept. 16	259	2300	4.83
Sept. 17	260	0000	0.76
Sept. 17	260	0100	T
Sept. 17	260	0600	0.25
Sept. 17	260	0700	1.02
Sept. 17	260	0800	0.51
Sept. 17	260	1700	0.64
Sept. 17	260	1800	0.13
Sept. 17	260	1900	0.13
Sept. 18	261	0000	0.51
Sept. 18	261	0100	1.52
Sept. 18	261	0200	1.02
Sept. 19	262	2100	T
Sept. 19	262	2200	T
Sept. 19	262	2300	0.51

Table A.2.--Gilliss supplementary rainfall data

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)				
				Gage 1	Gage 2	Gage 3	Gage 4	Gage 5
June 28/29	179/180	2340	0030	T	T	T	T	T
June 29	180	1815	1817	T	T	T	T	T
June 30	181	2210	2240	T	T	T	T	T
July 2	183	1853	2020	1.02	1.27	0.76	0.76	0.76
July 5	186	0912	0945	T	T	T	T	T
July 6	187	0135	0200	T	T	T	T	T
July 6	187	1353	1357			Not read		
July 6	187	1515	1608			Not read		
July 6	187	1745	-	1.02	1.27	1.27	1.52	0.76
July 6	187	-	2025			Not read		
July 6/7	187/188	2130	-	20.83	25.40	19.30	20.83	18.54
July 7	188	-	0550	42.16	44.20	35.56	40.89	35.56
July 7	188	0915	0935	T	T	T	T	T
July 7	188	1929	1945	T	T	T	T	T
July 8	189	0247	0453	T	T	T	T	T
July 8	189	0511	0543	T	T	T	T	T
July 8	189	1630	1750	T	T	T	T	T
July 8	189	1814	2045	4.83	5.08	3.56	5.08	3.30
July 13	194	1011	1012	T	T	T	T	T
July 13	194	1050	1053	T	T	T	T	T
July 13	194	1101	1120	T	T	T	T	T
July 14	195	0218	0235	0.81	0.81	0.76	1.02	0.51
July 14	195	0831	0842	T	T	T	T	T
July 14	195	1011	1012	T	T	T	T	T
July 14	195	1115	1155	18.54	19.05	10.92	20.57	18.80
July 14	195	1155	1255	16.00	17.27	11.94	16.13	10.67

Table A.2.--Gilliss supplementary rainfall data (continued)

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)				
				Gage 1	Gage 2	Gage 3	Gage 4	Gage 5
July 14	195	1255	1325	14.48	15.49	12.19	13.59	12.70
July 14	195	1325	1355	3.30	2.79	1.02	0.51	0.51
July 14	195	1710	1800	0.25	0.76	0.25	0.25	0.00
July 14/15	195/196	1800	0000	0.30	0.76	0.51	0.30	0.25
July 15	196	0140	0150	2.24	2.46	1.02	2.24	1.27
July 15	196	0150	0250	T	T	T	T	T
July 15	196	1019	1135	0.51	0.51	0.51	0.51	0.51
July 15	196	1717	1747	T	T	T	T	T
July 15	196	1757	1910	T	T	T	T	T
July 15	196	1925	2004	T	T	T	T	T
Aug. 6	218	1920	2045	-	-	-	-	-
Aug. 6/7	218/219	2120	2145	0.89	1.02	0.51	Out	0.51
Aug. 7	219	0445	0515	0.43	0.46	0.46	Out	0.64
Aug. 7	219	1552	1745	4.57	5.59	4.06	Out	3.05
Aug. 8	220	0845	0920	4.70	5.08	3.81	3.81	4.06
Aug. 8	220	1107	1143	1.02	1.02	0.81	0.89	0.86
Aug. 8	220	1211	-	2.54	2.54	2.51	2.54	2.41
Aug. 8	220	-	1515	0.46	0.38	0.30	0.48	0.58
Aug. 8	220	1535	-	2.64	2.90	2.74	2.57	2.29
Aug. 8	220	-	-	1.98	2.06	1.04	1.02	1.45
Aug. 8	220	-	1815	-	-	Not read	-	-
Aug. 8	220	2003	2102	-	-	Not read	-	-
Aug. 8	220	2235	-	12.70	13.21	11.43	14.10	12.57
Aug. 9	221	-	-	4.57	5.08	3.81	2.41	4.45

Table A.2.--Gilliss supplementary rainfall data (continued)

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)				
				Gage 1	Gage 2	Gage 3	Gage 4	Gage 5
Aug. 9	221	-	0015			Not read		
Aug. 9	221	-	-	0.18	.25	0.51	0.00	0.46
Aug. 10	222	0802	-	0.13	0.00	0.13	Unknown	0.13
Aug. 10	222	-	-	0.64	0.76	0.76	1.02	0.89
Aug. 10	222	-	-	2.03	2.54	1.91	2.03	2.29
Aug. 10	222	-	-					
Aug. 10	222	-	-	1.52	1.40	1.27	1.50	1.27
Aug. 10	222	-	-	1.02	0.64	1.27	1.12	1.14
Aug. 10	222	-	-	2.03	3.28	1.52	1.40	1.40
Aug. 10	222	-	1137			Not read		
Aug. 10	222	-	-	0.25	0.03	0.25	0.13	0.13
Aug. 10	222	1440	1456	0.18	0.13	0.38	0.13	0.25
Aug. 10	222							
Aug. 10	222	1550	1555	0.18	0.13	0.38	0.13	0.25
Aug. 12	224	2048	2057	0.00	0.00	0.00	0.00	0.00
Aug. 12	224	2200	2235	0.28	0.28	0.28	0.51	0.23
Aug. 12/13	224/225	2345	-	0.38	0.23	0.23	0.05	0.18
Aug. 13	225	-	0035	0.10	0.10	0.13	0.33	0.13
Aug. 13	225	0200	0220	1.60	2.18	1.14	1.83	0.81
Aug. 13	225							
Aug. 13	225	-	-	1.60	2.18	1.14	2.29	0.99
Aug. 13	225	0655	0720	0.13	0.13	0.18	0.08	0.00
Aug. 13	225	1957	2135	0.08	0.05	0.03	0.00	0.03
Aug. 13/14	225/226	2250	0000	0.69	0.46	0.48	0.51	0.48
Aug. 14	226	0000	0020	0.10	0.05	0.23	0.38	0.15
Aug. 14	226	0820	0840	T	T	T	T	T
Aug. 14	226							
Aug. 14	226	0932	1003			Not read		
Aug. 14	226	1005	1045	0.00	0.00	0.00	0.00	0.00

Table A.2.--Gilliss supplementary rainfall data (continued)

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)				
				Gage 1	Gage 2	Gage 3	Gage 4	Gage 5
Aug. 14	226	1503	1545			Not read		
Aug. 14	226	1608	1740	0.00	0.00	0.00	0.00	0.00
Aug. 14	226	1903	1952	0.51	0.48	0.51	0.76	0.71
Aug. 15	227	1530	1622	0.76	0.76	0.74	0.64	0.76
Aug. 17	229	0702	0705	0.00	0.00	0.00	0.00	0.00
Aug. 17	229	0931	0948	0.00	0.00	0.00	0.00	0.00
Aug. 17	229	1333	1350	0.00	0.00	0.00	0.00	0.00
Aug. 17	229	1551	1602	0.00	0.00	0.00	0.00	0.00
Aug. 17	229	1608	-	0.10	0.13	0.08	0.13	0.10
Aug. 17	229	-	-	0.53	1.02	0.18	0.25	0.03
Aug. 17	229	-	-	0.13	0.03	0.25	0.25	0.13
Aug. 17	229	-	-	0.66	0.64	0.56	0.51	0.64
Aug. 17	229	-	-	0.15	0.13	0.20	0.13	0.13
Aug. 17	229	-	-	0.71	0.64	0.38	0.43	0.38
Aug. 17	229	-	-	1.27	1.55	1.40	1.22	0.76
Aug. 17	229	-	-	3.30	3.40	2.41	2.29	2.54
Aug. 17	229	-	-	0.00	0.51	0.13	0.25	0.25
Aug. 17	229	-	2107	0.00	0.00	0.00	0.00	0.00
Aug. 17/18	229/230	2308	-	0.76	0.76	0.51	1.27	0.64
Aug. 30	242	0004	0050	2.92	4.32	2.79	3.43	4.06
Aug. 30	242	0200	-	0.89	0.76	0.76	0.38	0.76
Aug. 30	242	-	-	1.02	1.27	0.76	1.02	0.51
Aug. 30	242	-	0455	0.00	0.00	0.00	0.00	0.00
Aug. 30	242	1145	-	0.13	0.13	0.13	0.13	0.13

Table A.2.--Gilliss supplementary rainfall data (continued)

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)				
				Gage 1	Gage 2	Gage 3	Gage 4	Gage 5
Aug. 30	242	-	1230	0.00	0.18	0.25	0.13	0.13
Aug. 30	242	1820	-	2.29	3.05	2.54	2.79	3.30
Aug. 30	242	-	-	5.59	5.59	5.08	4.57	6.86
Aug. 30	242	-	-	4.57	3.56	3.81	3.56	6.35
Aug. 30	242	-	2120	0.25	0.25	0.51	0.25	0.25
Sept. 1	244	0722	0740	T	T	T	T	T
Sept. 2	245	0718	0721	0.30	0.46	0.41	0.30	0.56
Sept. 2	245	1043	-	10.49	11.35	8.74	11.25	12.65
Sept. 2	245	-	1122	9.02	11.05	8.13	7.24	9.91
Sept. 2	245	1320	1355	Not read				
Sept. 2	245	1419	-	2.03	2.03	Not read		
Sept. 2	245	-	-	Not read		3.56	4.06	Not read
Sept. 2	245	-	-	2.54	2.54	Not read		
Sept. 2	245	-	-	1.78	2.03	Not read		
Sept. 2	245	-	-	Not read		3.56	2.54	Not read
Sept. 2	245	-	-	1.27	1.27	Not read		2.29
Sept. 2	245	-	-	0.76	1.27	0.76	1.27	1.02
Sept. 2	245	-	-	Not read		3.81	4.06	Not read
Sept. 2	245	-	-	4.83	4.83	Not read		
Sept. 2	245	-	1715	0.00	0.00	0.25	0.00	0.00
Sept. 2	245	1902	1940	Not read				
Sept. 2	245	2314	2342	1.27	1.78	1.14	1.52	1.27
Sept. 3	246	0700	0715	1.78	2.29	2.03	2.03	2.03
Sept. 3	246	1433	1440	0.25	0.51	0.25	0.25	0.51

Table A.2.--Gilliss supplementary rainfall data (continued)

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)				
				Gage 1	Gage 2	Gage 3	Gage 4	Gage 5
Sept. 4	247	1252	1328	T	T	T	T	T
Sept. 5	248	0202	0245	0.51	0.64	0.51	0.51	0.25
Sept. 5	248	0340	0345	0.00	0.13	0.00	0.25	0.13
Sept. 5	248	0735	0747	T	T	T	T	T
Sept. 5	248	0925	-	Not read	Not read	6.35	6.86	Not read
Sept. 5	248	-	-	8.89	8.64	Not read	Not read	11.94
Sept. 5	248	-	-	4.32	5.59	Not read	Not read	8.64
Sept. 5	248	-	-	6.35	7.37	13.21	13.21	4.83
Sept. 5	248	-	-	5.33	5.59	2.79	1.52	6.86
Sept. 5	248	-	-	2.03	2.03	0.51	2.29	1.52
Sept. 5	248	-	1325	3.81	3.81	3.56	4.06	3.81
Sept. 5	248	1410	-	12.45	13.21	9.65	12.19	11.68
Sept. 5	248	-	1710	3.30	3.81	3.05	3.30	3.30
Sept. 5	248	1841	2130	0.89	1.02	0.76	1.02	0.76
Sept. 7	250	1357	1404	0.10	0.15	0.08	0.08	0.05
Sept. 8	251	1751	1819	0.05	0.03	0.00	0.05	0.03
Sept. 8	251	1847	1950	0.00	0.00	0.00	0.00	0.00
Sept. 10	253	0630	0655	Not read	Not read	Not read	Not read	Not read
Sept. 10	253	0712	0930	0.43	0.51	0.36	0.13	0.43
Sept. 10	253	1441	1515	8.64	8.13	6.86	-	6.35
Sept. 10	253	1550	1625	8.64	8.13	6.86	-	6.35
Sept. 11	254	2245	2255	0.13	0.25	0.05	0.00	0.38
Sept. 13	256	1122	1131	T	0.03	0.05	T	0.05
Sept. 13	256	1158	1235	T	T	T	T	T

Table A.2.--Gilliss supplementary rainfall data (continued)

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)				
				Gage 1	Gage 2	Gage 3	Gage 4	Gage 5
Sept. 13	256	1845	-	8.89	10.41	9.14	10.41	12.45
Sept. 13	256	-	-	4.57	6.60	3.30	2.29	5.08
Sept. 13	256	-	-	6.86	7.87	8.64	7.11	5.84
Sept. 13	256	-	-	5.08	5.59	3.81	10.67	7.11
Sept. 13	256	-	-	5.08	5.08	4.06	-	2.54
Sept. 13/14	256/257	-	0030	1.02	0.00	0.25	-	0.00
Sept. 14	257	0255	0600	0.76	0.64	0.51	1.02	0.51
Sept. 14	257	0920	-	10.67	10.41	9.14	8.38	9.40
Sept. 14	257	-	-	7.11	6.60	4.83	2.29	4.57
Sept. 14	257	-	-	12.45	12.19	11.18	11.94	13.21
Sept. 14	257	-	-	3.81	4.06	2.29	2.29	2.03
Sept. 14	257	-	-	5.59	6.35	6.10	4.06	4.32
Sept. 14	257	-	1435	1.52	1.02	1.02	1.52	1.52
Sept. 14	257	1502	1530	0.25	0.51	0.51	0.25	0.25
Sept. 14	257	1550	-	0.25	0.25	0.00	0.25	0.25
Sept. 14	257	-	1725	0.51	0.51	0.00	0.25	0.00
Sept. 15	258	0017	0040	-	-	Not read	-	-
Sept. 15	258	0315	0330	0.36	0.38	0.25	0.46	0.25
Sept. 15	258	0815	0822	T	T	T	T	T
Sept. 16	259	0200	0310	T	T	T	T	T
Sept. 16	259	0620	-	0.13	0.13	0.28	0.33	0.25
Sept. 16	259	-	-	1.40	1.40	0.99	1.19	2.29
Sept. 16	259	-	0805	0.38	0.38	0.38	0.25	0.13
Sept. 16	259	0905	0935	-	-	Not read	-	-

Table A.2.--Gilliss supplementary rainfall data (continued)

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)				
				Gage 1	Gage 2	Gage 3	Gage 4	Gage 5
Sept. 16	259	1030	-	2.92	2.67	2.16	2.03	3.43
Sept. 16	259	-	-	13.59	15.11	12.83	10.16	8.51
Sept. 16	259	-	-	5.59	5.84	0.76	5.33	8.64
Sept. 16	259	-	-	1.78	1.78	1.52	2.03	2.79
Sept. 16	259	-	-	2.67	2.79	1.40	2.03	3.56
Sept. 16	259	-	1318	0.00	0.13	0.00	0.00	0.00
Sept. 16	259	1440	1532	4.45	4.70	2.92	4.06	5.33
Sept. 16	259	2145	2220	5.84	6.10	4.83	5.84	7.62
Sept. 16	259	2230	2241	-	-	Not read	-	-
Sept. 16	259	2250	-	2.79	3.56	2.29	2.54	2.54
Sept. 17	260	-	-	2.29	2.29	1.52	2.29	2.29
Sept. 17	260	-	-	3.81	4.32	2.03	2.79	3.30
Sept. 17	260	-	-	1.02	1.02	1.02	1.02	1.02
Sept. 17	260	-	0345	-	-	Not read	-	-
Sept. 17	260	0400	0430	0.00	0.00	0.00	0.13	0.00
Sept. 17	260	0740	0810	-	-	Not read	-	-
Sept. 17	260	0820	0825	0.25	0.10	0.25	0.05	0.51
Sept. 17	260	0840	-	1.07	0.91	0.69	0.46	0.58
Sept. 17	260	-	-	7.82	8.13	6.93	5.84	6.27
Sept. 17	260	-	-	3.56	3.30	2.54	2.29	2.54
Sept. 17	260	-	-	0.13	0.25	0.25	0.05	0.25
Sept. 17	260	-	1420	-	-	Not read	-	-
Sept. 17	260	1445	-	4.95	5.84	3.05	2.49	3.18
Sept. 17	260	-	1527	10.41	11.43	10.92	11.94	9.53

Table A.2.--Gilliss supplementary rainfall data (continued)

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)				
				Gage 1	Gage 2	Gage 3	Gage 4	Gage 5
Sept. 17	260	1822	1831	T	T	T	T	T
Sept. 18	261	1225	1230			Not read		
Sept. 18	261	1829	1910			Not read		
Sept. 18	261	2217	2237	2.54	3.05	1.78	2.54	3.05
Sept. 19	262	0056	0125	1.52	1.78	1.02	Not read	2.03
Sept. 19	262	0155	0200	T	T	T	T	T
Sept. 21/22	264/265	2330	-	9.65	10.67	9.14	9.91	8.13
Sept. 22	265	-	0055	2.03	1.52	1.27	1.02	1.52
Sept. 22	265	0114	0125	0.51	0.25	0.51	0.76	0.64
Sept. 23	266	2326	2335	0.03	0.08	0.08	0.00	0.08

Table A.3.--Dallas supplementary rainfall data

Date (1974)		Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)
					<u>Wedge gage</u>
Aug.	16/17	228/229	1200	0700	0.51
Aug.	17/18	229/230	0700	0700	T
Aug.	18	230	0750	1200	13.2
Aug.	30	242	1200	1800	T
Sept.	2	245	1600	1730	T
Sept.	2	245	1730	1930	0.89
Sept.	3	246	0530	0600	T
Sept.	3	246	0630	0730	1.7
Sept.	3	246	1609	1635	1.0
Sept.	3	246	1739	2345	4.0
Sept.	4	247	1748	1825	T
Sept.	4	247	1852	1930	T
Sept.	4	247	1930	2130	0.51
Sept.	5	248	0930	1130	7.87
Sept.	5	248	1130	1200	T
Sept.	5	248	1200	1330	4.19
Sept.	5	248	1330	1400	T
Sept.	5	248	1400	1430	0.81
Sept.	6	249	0700	0730	2.03
Sept.	6	249	2130	2300	T
Sept.	6/7	249/250	2330	0000	T
Sept.	7	250	0030	0130	T
Sept.	8	251	0000	0730	T
Sept.	9	252	0930	1030	6.60
Sept.	9	252	1030	1100	T
Sept.	9	252	1500	1530	T
Sept.	9	252	1530	1900	8.38
Sept.	9	252	1930	2000	T
Sept.	11	254	0700	0730	T
Sept.	11	254	2300	2330	0.25
Sept.	12	255	0330	0430	1.02
Sept.	12	255	0700	1200	85.09
Sept.	12	255	1200	1600	9.65
Sept.	13	256	0400	0430	0.15
Sept.	13	256	0800	0900	T
Sept.	13	256	0900	1300	8.13
Sept.	13	256	1330	1400	T

Table A.3.--Dallas supplementary rainfall data (continued)

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)
<u>Wedge gage</u>				
Sept. 13	256	1400	1630	29.72
Sept. 13	256	1630	2330	30.48
Sept. 13/14	256/257	2330	0000	1.52
Sept. 14	257	0000	0200	2.03
Sept. 14	257	0200	0400	T
Sept. 14	257	0400	0600	1.24
Sept. 14	257	0830	1100	2.79
Sept. 14	257	1915	2000	1.14
Sept. 16	259	0000	0030	T
Sept. 16	259	0030	0200	1.02
Sept. 16	259	0230	0730	4.70
Sept. 16	259	1500	1630	1.14
Sept. 16	259	2230	2300	T
Sept. 17	260	0200	0230	T
Sept. 17	260	0230	0530	6.43
Sept. 17	260	1200	1230	T
Sept. 17	260	1400	1430	T
Sept. 18	261	1330	1400	T
Sept. 18	261	1830	2000	3.86
Sept. 18/19	261/262	2000	0000	T
<u>Bow gage</u>				
June 28/29	179/180	2340	1255	5.59
June 30	181	0105	0340	0.51
June 30	181	1205	1350	1.02
July 1	182	0306	0620	0.25
July 2	183	0925	1630	26.16
July 3	184	0415	0735	0.25
July 7	188	0105	0135	0.25
July 7	188	1237	2010	6.60
July 8	189	0847	1806	11.18
July 13	194	0050	0700	5.59
July 13/14	194/195	2350	0600	4.83
July 16	197	0250	0258	0.25

Table A.3.--Dallas supplementary rainfall data (continued)

Date (1974)	Julian day	Beginning (GMT)	Ending (GMT)	Rainfall amount (mm)
				<u>Bow gage</u>
Aug. 6	218	1240	1310	1.02
Aug. 6	218	1738	1753	1.02
Aug. 8	220	0300	0315	0.25
Aug. 8	220	1600	1725	2.03
Aug. 8	220	1850	1910	1.78
Aug. 10	222	1150	1230	1.52
Aug. 12	224	1205	1415	0.25
Aug. 12	224	1540	1800	4.06
Aug. 12/13	224/225	1850	0000	1.27
Aug. 16	228	1748	1822	T
Aug. 19	231	0000	0600	1.52
Aug. 19	231	0600	1200	23.37
Aug. 19	231	1200	1800	8.13
Aug. 30	242	0130	0450	1.27
Sept. 2	245	1705	1855	T
Sept. 3	246	0605	0715	3.05
Sept. 3	246	1610	1655	4.06
Sept. 3	246	1910	2000	1.78
Sept. 5	248	0946	1105	0.25
Sept. 5	248	1235	1520	11.68
Sept. 6	249	2230	2240	1.78
Sept. 9	252	1740	1856	16.26
Sept. 12	255	0330	0545	3.30
Sept. 12	255	0715	1515	63.50
Sept. 13	256	0410	0435	0.51
Sept. 13	256	0815	1200	9.40
Sept. 13	256	1505	1750	7.62
Sept. 14	257	0000	0540	5.33
Sept. 14	257	0845	1115	4.06
Spet. 14	257	1925	2000	1.78
Sept. 16	259	0010	0600	6.10
Sept. 16	259	0600	1200	0.51
Sept. 16	259	1512	1535	1.78

Table A.4.-- Oceanographer supplementary rainfall data

Date (1974)		Julian day	Time of reading (GMT)	Rainfall amount (mm)	
				<u>Bow gage</u>	<u>Fantail gage</u>
June	30	181	1400	3.56	3.81
June	30	181	1430	0.03	0.03
June	30	181	2100	8.64	8.13
June	30	181	2130	2.29	6.35
July	1	182	0300	0.51	1.02
July	1	182	1830	T	T
July	1	182	1930	T	T
July	1	182	2000	T	T
July	1	182	2030	T	0.25
July	1	182	2100	0.25	0.25
July	2	183	0230	T	T
July	2	183	0400	1.27	2.03
July	2	183	0430	T	0.25
July	2	183	0500	T	0.76
July	2	183	0530	0.76	1.27
July	2	183	0600	0.25	0.25
July	2	183	0630	T	0.76
July	2	183	0700	T	T
July	2	183	0730	T	T
July	2	183	0800	0.13	0.25
July	2	183	0830	2.54	2.79
July	2	183	0900	0.76	0.76
July	2	183	0930	2.79	3.81
July	2	183	1000	5.59	7.11
July	2	183	1030	2.29	2.79
July	2	183	1100	0.76	0.64
July	2	183	1130	0.13	T
July	2	183	1230	0.25	0.64
July	2	183	1300	0.76	0.51
July	2	183	1330	0.89	0.76
July	2	183	1400	T	T
July	2	183	1430	T	0.25
July	2	183	1500	T	T
July	2	183	1600	T	T

Table A.4.--Oceanographer supplementary rainfall data (continued)

Date (1974)		Julian day	Time of reading (GMT)	Rainfall amount (mm)	
				<u>Bow gage</u>	<u>Fantail gage</u>
July	2	183	1630	T	T
July	2	183	1700	T	T
July	2	183	1730	2.54	2.79
July	2	183	1800	3.56	3.68
July	2	183	1830	1.27	2.54
July	2	183	1900	T	T
July	2	183	1930	T	T
July	2	183	2000	T	0.13
July	3	184	1530	T	T
July	3	184	1800	0.38	0.51
July	3	184	1830	T	T
July	4	185	2030	T	T
July	4	185	2100	0.38	0.13
July	5	186	0030	0.38	0.38
July	7	188	0200	T	T
July	7	188	0230	0.25	0.76
July	7	188	0300	T	T
July	7	188	0500	T	T
July	7	188	0530	0.25	2.79
July	7	188	0600	T	T
July	7	188	0630	0.25	0.25
July	7	188	0700	T	T
July	7	188	0800	T	T
July	7	188	0830	0.25	0.51
July	7	188	0900	0.51	1.27
July	7	188	0930	1.27	2.29
July	7	188	1000	0.13	0.25
July	7	188	1030	0.36	0.71
July	7	188	1630	T	T
July	7	188	1700	5.84	7.37
July	7	188	1730	8.13	11.68
July	7	188	1800	7.62	12.45
July	7	188	1830	0.76	1.02
July	7	188	1900	0.51	0.76
July	7	188	1930	0.25	0.76
July	7	188	2000	1.27	3.81

Table A.4.--Oceanographer supplementary rainfall data (continued)

Date (1974)		Julian day	Time of reading (GMT)	Rainfall amount (mm)	
				<u>Bow gage</u>	<u>Fantail gage</u>
July	7	188	2030	9.40	9.65
July	7	188	2100	11.94	14.22
July	7	188	2130	33.02	33.02
July	7	188	2200	55.88	55.88
July	7	188	2230	16.76	19.05
July	7	188	2300	13.72	16.00
July	7	188	2330	5.08	4.32
July	8	189	0000	10.67	11.68
July	8	189	0030	2.79	2.54
July	8	189	0100	7.62	6.60
July	8	189	0130	19.56	19.56
July	8	189	0200	3.81	2.54
July	8	189	0230	2.03	1.52
July	8	189	0300	2.03	1.52
July	8	189	0330	1.02	0.76
July	8	189	0400	0.38	0.38
July	8	189	0430	T	T
July	8	189	0500	T	T
July	8	189	0530	T	T
July	8	189	0600	T	T
July	8	189	0630	T	T
July	8	189	0800	1.52	1.52
July	8	189	1030	T	T
July	8	189	1600	T	T
July	8	189	1630	0.38	0.89
July	8	189	1700	2.29	3.05
July	8	189	1730	1.52	1.78
July	8	189	1800	2.16	2.79
July	8	189	1830	0.38	0.51
July	8	189	1900	0.51	0.76
July	8	189	1930	0.25	0.25
July	8	189	2000	T	T
July	8	189	2030	0.13	0.25
July	8	189	2100	T	T
July	8	189	2130	T	T
July	8	189	2200	T	T

Table A.4.--Oceanographer supplementary rainfall data (continued)

Date (1974)		Julian day	Time of reading (GMT)	Rainfall amount (mm)	
				<u>Bow gage</u>	<u>Fantail gage</u>
July	8	189	2230	0.13	T
July	9	190	0430	T	T
July	9	190	0500	T	T
July	12	193	2230	T	T
July	13	194	1330	T	T
July	13	194	2030	0.76	1.27
July	13	194	2100	0.13	0.13
July	14	195	0100	0.64	0.76
July	14	195	0130	1.27	1.78
July	14	195	0200	4.06	5.59
July	14	195	0230	2.54	3.81
July	14	195	0300	T	T
July	14	195	0330	T	T
July	14	195	0400	T	0.25
July	14	195	0430	T	T
July	14	195	0530	2.03	2.54
July	14	195	0600	0.51	0.76
July	14	195	0630	T	T
July	14	195	0830	T	T
July	14	195	1900	T	T
July	14	195	1930	T	T
July	15	196	0130	3.81	0.76
July	15	196	0200	0.51	0.76
July	15	196	0230	0.76	1.02
July	15	196	0300	1.02	1.52
July	15	196	0330	6.35	7.62
July	15	196	0430	6.60	8.64
July	15	196	0500	2.54	3.05
July	15	196	0530	3.05	3.81
July	15	196	0700	T	T
July	15	196	0730	0.51	0.51
July	15	196	0800	1.52	1.52
July	15	196	0830	0.38	0.38
July	15	196	0900	0.05	0.13
July	15	196	0930	0.51	0.51

Table A.4.--Oceanographer supplementary rainfall data (continued)

Date (1974)		Julian day	Time of reading (GMT)	Rainfall amount (mm)	
				<u>Bow gage</u>	<u>Fantail gage</u>
July	15	196	1000	0.13	0.13
July	15	196	1030	T	T
July	15	196	1100	T	T
July	15	196	1130	T	T
July	15	196	1230	T	T
July	15	196	1300	T	T
July	15	196	1330	T	T
July	29	210	0800	T	T
July	29	210	0900	T	T
July	29	210	0930	T	0.13
July	29	210	1730	T	T
July	29	210	1800	T	T
July	29	210	1830	T	T
July	30	211	1100	T	T
July	30	211	1130	1.52	2.79
Aug.	3	215	2000	T	T
Aug.	5	217	0800	T	T
Aug.	5	217	0830	T	T
Aug.	5	217	1430	0.76	1.52
Aug.	5	217	1500	1.02	2.54
Aug.	8	220	0900	T	T
Aug.	8	220	0930	T	T
Aug.	8	220	1000	1.02	1.65
Aug.	8	220	1030	0.25	0.25
Aug.	8	220	1800	1.78	2.54
Aug.	8	220	1830	1.02	1.27
Aug.	8	220	1930	2.54	3.56
Aug.	10	222	0100	1.27	0.38
Aug.	10	222	0130	7.62	7.62
Aug.	10	222	0200	2.54	3.30
Aug.	10	222	0630	2.79	2.79
Aug.	12	224	1330	T	T
Aug.	12	224	1400	T	T
Aug.	12	224	1430	T	T
Aug.	12	224	1500	T	T

Table A.4.--Oceanographer supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)	
			<u>Bow gage</u>	<u>Fantail gage</u>
Aug. 12	224	1530	T	T
Aug. 14	226	1100	T	T
Aug. 16	228	1030		
				<u>Fantail gage*</u>
Aug. 16	228	0500		T
Aug. 17	229	1500		T
Aug. 17	229	1530		T
Aug. 17	229	1630		T
Aug. 17	229	1900		T
Aug. 18	230	0800		0.25
Aug. 18	230	0830		12.19
Aug. 18	230	0900		7.62
Aug. 18	230	0930		2.79
Aug. 18	230	1000		1.14
Aug. 18	230	1030		T
Aug. 18	230	1100		T
Aug. 18	230	1130		0.25
Aug. 30	242	0030		T
Aug. 30	242	0100		1.02
Aug. 30	242	0130		3.56
Aug. 30	242	0200		1.78
Aug. 30	242	0230		2.03
Aug. 30	242	0300		0.76
Aug. 30	242	0330		T
Aug. 30	242	0400		0.25
Aug. 30	242	1400		T
Aug. 30	242	1430		T
Aug. 31	243	0030		T
Sept. 2	245	0130		0.51
Sept. 2	245	0200		T
Sept. 2	245	1330		T
Sept. 2	245	1400		0.89
Sept. 2	245	1430		T
Sept. 2	245	1500		T

Table A.4.--Oceanographer supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)
			<u>Fantail gage</u>
Sept. 2	245	1530	T
Sept. 2	245	1600	0.25
Sept. 2	245	1800	T
Sept. 2	245	1830	T
Sept. 2	245	1900	T
Sept. 2	245	1930	T
Sept. 2	245	2000	0.25
Sept. 3	246	0630	T
Sept. 3	246	1100	T
Sept. 3	246	1130	T
Sept. 4	247	0530	1.27
Sept. 4	247	0600	1.27
Sept. 4	247	0630	0.76
Sept. 4	247	0700	T
Sept. 4	247	0830	0.51
Sept. 4	247	0930	T
Sept. 4	247	1000	0.64
Sept. 4	247	1030	T
Sept. 4	247	1100	T
Sept. 4	247	1330	5.33
Sept. 4	247	1400	10.67
Sept. 4	247	1430	1.27
Sept. 4	247	1500	1.27
Sept. 4	247	1530	1.52
Sept. 4	247	1600	1.02
Sept. 4	247	1630	1.52
Sept. 4	247	1700	0.51
Sept. 4	247	1730	T
Sept. 4	247	1800	T
Sept. 5	248	1700	T
Sept. 5	248	1730	T
Sept. 5	248	1800	2.54
Sept. 5	248	1830	3.81
Sept. 5	248	1900	0.64
Sept. 5	248	1930	0.25
Sept. 5	248	2000	T

Table A.4.--Oceanographer supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)
			<u>Fantail gage</u>
Sept. 6	249	0230	0.13
Sept. 6	249	0430	T
Sept. 6	249	0500	T
Sept. 6	249	0530	1.78
Sept. 6	249	0600	2.54
Sept. 6	249	0630	3.81
Sept. 6	249	0700	2.54
Sept. 6	249	0730	1.78
Sept. 6	249	0800	0.51
Sept. 6	249	0830	0.51
Sept. 6	249	1000	0.51
Sept. 6	249	1030	T
Sept. 6	249	1100	T
Sept. 6	249	1300	T
Sept. 6	249	1330	T
Sept. 6	249	1400	0.25
Sept. 6	249	1700	T
Sept. 6	249	1730	1.27
Sept. 6	249	1800	T
Sept. 6	249	1830	T
Sept. 6	249	2030	5.33
Sept. 6	249	2100	5.33
Sept. 6	249	2130	1.52
Sept. 6	249	2200	T
Sept. 7	250	0600	0.13
Sept. 7	250	0630	T
Sept. 9	252	0700	T
Sept. 10	253	0030	T
Sept. 11	254	1800	T
Sept. 11	254	1830	0.76
Sept. 11	254	1900	2.79
Sept. 11	254	1930	0.76
Sept. 11	254	2000	16.26
Sept. 11	254	2030	7.62
Sept. 11	254	2100	3.30
Sept. 11	254	2130	0.51

Table A.4.--Oceanographer supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)
			<u>Fantail gage</u>
Sept. 11	254	2200	1.02
Sept. 11	254	2230	2.03
Sept. 11	254	2300	1.52
Sept. 11	254	2330	0.25
Sept. 12	255	0000	T
Sept. 12	255	1330	11.68
Sept. 12	255	1400	3.56
Sept. 12	255	1430	3.05
Sept. 12	255	1500	0.51
Sept. 12	255	1530	1.52
Sept. 12	255	1600	0.38
Sept. 16	259	0600	T
Sept. 16	259	0630	1.78
Sept. 16	259	0700	4.32
Sept. 16	259	0730	T
Sept. 16	259	0900	T
Sept. 16	259	0930	0.25
Sept. 16	259	1000	T
Sept. 16	259	1030	0.51
Sept. 16	259	1100	6.60
Sept. 16	259	1130	0.76
Sept. 16	259	1200	2.03
Sept. 16	259	1230	0.25
Sept. 16	259	1330	T
Sept. 16	259	1400	T
Sept. 16	259	1430	0.25
Sept. 16	259	1500	0.25
Sept. 16	259	1600	T
Sept. 16	259	1630	T
Sept. 16	259	1700	2.54
Sept. 16	259	1730	7.62
Sept. 16	259	1800	T
Sept. 16	259	1830	T
Sept. 16	259	1900	0.25
Sept. 17	260	0600	T
Sept. 17	260	0630	T

Table A.4.--Oceanographer supplementary rainfall data (continued)

Date (1974)	Julian day	Time of reading (GMT)	Rainfall amount (mm)
			<u>Fantail gage</u>
Sept. 17	260	1330	0.51
Sept. 17	260	1400	0.51
Sept. 17	260	1430	2.54
Sept. 17	260	1500	T
Sept. 21	264	2200	T
Sept. 21	264	2230	T
Sept. 22	265	0000	5.08
Sept. 22	265	0030	12.70

* Bow gage turned over to the Dallas for remainder of GATE.





(Continued from inside front cover)

- EDS 16 NGSDC 1 - Data Description and Quality Assessment of Ionospheric Electron Density Profiles for ARPA Modeling Project. Raymond O. Conkright, in press, 1976.
- EDS 17 GATE Convection Subprogram Data Center: Analysis of Ship Surface Meteorological Data Obtained During GATE Intercomparison Periods. Fredric A. Godshall, Ward R. Seguin, and Paul Sabol, October 1976. (PB-263-000)
- EDS 18 GATE Convection Subprogram Data Center: Shipboard Precipitation Data. Ward R. Seguin and Paul Sabol, November 1976. (PB-263-820)
- EDS 19 Separation of Mixed Data Sets into Homogenous Sets. Harold Crutcher and Raymond L. Joiner, February 1977.
- EDS 20 GATE Convection Subprogram Data Center--Analysis of Rawinsonde Intercomparison Data. Robert Reeves, Scott Williams, Eugene Rasmusson, Donald Acheson, Thomas Carpenter, and James Rasmussen, November 1976.
- EDS 21 GATE Convection Subprogram Data Center: Comparison of Ship-Surface, Rawinsonde and Tethered Sonde Wind Measurements. Chester F. Ropelewski and Robert W. Reeves, April 1977.
- EDS 22 U.S. National Processing Center for GATE: B-Scale Surface Meteorological and Radiation System, Including Instrumentation, Processing, and Archived Data. Ward R. Seguin, Paul Sabol, Raymond Crayton, Richard S. Cram, Kenneth L. Ecatemacht, and Monte Poindexter, April 1977.



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